Cadmium Nitrate Tetrahydrate D52252898 MATERIAL SAFETY DATA SHEET **** ACCT: 463282001 CAT NO: 879937 PO NBR: 98970 PAGE: 1

MSDS Name: Cadmium Nitrate Tetrahydrate Catalog Numbers: Catalog Numbers: 875064, 879937, 879937-1, 8799371, C13-100, **** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

Synonyms:
Nitric acid, cadmium salt, tetrahydrate.
Nitric acid, cadmium salt, tetrahydrate.
Company Identification: Fisher Scientific
Company Identification: Fisher Scientific
Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

10325-94-7 10022-68-1 Cadmium nitrate Cadmium nitrate, tetrahydrate Chemical Name 100 233-710-6 unlisted EINECS#

Hazard Symbols: XN O Risk Phrases: 20/21/: Phrases: 20/21/22 8

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: white solid.

Dangeri Strong oxidizer. Contact with other material may cause a fire. Harmful if swallowed. May cause methemoglobinemia. May cause adverse reproductive effects based upon animal studies. May cause eye and skin irritation. May cause lung damage. May cause liver and kidney damage. Causes severe respiratory tract irritation. Cancer hazard. Contains cadmium. Avoid creating dust.

Target Organs: Kidneys, liver, lungs, skeletal structures. and

Potential Health Effects

Causes eye irritation.

Causes severe skin irritation. Chronic inhalation may cause pulmonary emphysema.

Inhalation: Harmrul if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause unconsciousness.

Effects may be delayed. Causes respiratory tract irritation. May cause methemoglobinemia, cyanosis, convulsions tachycardia, dyspnea (labored breathing), and death. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause dyspnea (difficult or labored breathing). May cause anemia. May cause cough, chest pain, fever, muscular cramps, and headache.

Chroni May cause respiratory tract cancer. Prolonged or repeated exposure may cause permanent bone structure abnormalities. May cause liver a kidney damage. May cause anemia and other blood cell abnormalities chronic inhalation may cause pulmonary emphysema. and

**** SECTION 4 - FIRST AID MEASURES ****

Еуев:

Skin: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything mouth to an unconscious person. Get medical aid.

Inhalation: Š

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to physician difficult, give oxygen.

Antidote: The use of Calcium disodium EDTA as a chelating agent should be by qualified medical personnel.

2,554

08/17/05 D52252898 CAT NO:

INDEX:

463282001 S79937

PAGE: 2

PO NBR: 98970

pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Extinguishing Media:

Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Autoignition Temperature:Not applicable.
Explosion Limits, upper:Not available.
Explosion Limits, upper:Not available.
Explosion Limits, upper:Not available.
Explosion Limits (estimated) Health: 2; Flammability: 1; Instability: 1; Specia

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper in Section personal protective equipment 8. as indicated

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Reep container tightly closed. Avoid contact with clothing and other combustible materials. Do not ingest or inhale. Use with adequate ventilation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Cadmium nitrate	Cadmium nitrate, te trahydrate	Chemical Name
0.002 mg/m3 TWA (respirable fraction, as Cd) (listed under **) no name **).	e 0.002 mg/m3 TWA (respirable fraction, as Cd) (listed under ** no name **).	ACGIH
9 mg/m3 IDLH (dust, as Cd) (listed under ** no name **).	dust, as Cd) (11sted under ** no name **).	HSOIN
2.5 ug/m3 action level (as Cd); 5 ug/m3 TMA (as Cd) (do not eat, drink or chew to bacco or gum or apply cosmetics in regulated in regulated carcinogen; dust can cause lung and kidney uns	1 2.5 ug/m3 action 1 evel (as Cd); 5 ug/m3 TMA (as Cd); 6 Cd) (do not eat color or chew to bacco or gum or apply cosmetics areas; 1 regulated areas; 1 ust car cincen lung disease 1 ung disease 2 gCFR 1910.1027)	OSHA - Final PELS

```
Preezing/Melting Point:
Decomposition Temperature:
Solubility in water:
Specific Gravity/Density:
Molecular Formula:
Molecular Weight:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Boiling Point:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Physical State:
Color:
         Carcinogenicity:

Cadmium nitrate, tetrahydrate

ACGIH: A2 - Suspected Human Carcinogen (as Cd) (listed as ** undefined ** ACGIH: A2 - Suspected Human Carcinogen (disted as ** undefined ** NIOSH: potential occupational carcinogen (disted as ** undefined **)

NTP: Known carcinogen (listed as ** undefined **)

OSHA: Possible select carcinogen (listed as ** undefined **)

Cadmium nitrate - Suspected Human Carcinogen (as Cd) (listed as ** undefined **)

California: carcinogen; initial date 10/1/87 (listed as ** undefined **)

NTD: Known carcinogen (listed as ** undefined **)

OSHA: Possible select carcinogen (disted as ** undefined **)

IARC: Group 1 carcinogen (listed as ** undefined **)

IARC: Group 1 carcinogen (listed as ** undefined **)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               poration Rate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            LD50/LC50:
CAS# 10022-68-1: Draize test, rabbit, eye: 20 mg/24H Moderate;
Draize test, rabbit, skin: 500 mg/24H Severe; Oral, rat: LD50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 reducing agents.

Incompatibilities with Other Materials:
Reducing agents, phosphorus, copper, copper
materials.
Hazardous Decomposition Products:
Nitrogen oxides, toxic cadmium oxide fumes.
Hazardous Polymerization: Has not been reported.
Epidemiology:
NIOSH cited recent epidemiological evidence of a significant excess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RTECS#:
CAS# 10022-68-1: EV1850000
CAS# 10325-94-7: EV1750000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Stable.

Conditions to Avoid:
Incompatible materials, combustible materials, organic materials,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chemical Stability:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OSHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Personal Protective Equipment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vacated PELs:
Cadmium nitrate, tetrahydrate:
No OSHA Vacated PELs are listed for this chemical.
Cadmium nitrate:
No OSHA Vacated PELs are listed for this chemical.
                                                                                                                                                                                                                                                                                                                                                                                                                mg/kg.
CAS# 10325-94-7: Oral, mouse: LD50 = 47 mg/kg; Oral, rat: LD50 = 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Respirators:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08/17/05
D52252898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clothing:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 **** SECTION 11 - TOXICOLOGICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          **** SECTION 10 - STABILITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Follow the OSHA respirator regulations found in CFR 1910.134 or European Standard EN 149. Always a NIOSH or European Standard EN 149 approved respirator when necessary.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wear appropriate protective clothing to minimize contact with skin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wear appropriate protective gloves to prevent skin exposure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59.5 deg C
Not available.
215% (20 C)
2.455 @ 17C
Cd(NO3) 2.4H2O
308.47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      solid
white
odorless
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Negligible.
Not available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Negligible.
Not available.
132 deg C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCT: 463282001
CAT NO: 879937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ilable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AND REACTIVITY ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PO NBR:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  alloys, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAGE: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disease. See 29
CFR 1910.1027)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     = 300
2,556
```

```
DATE: 08/17/05 ACCT: 463282001 PAGE: 4

INDEX: D52252898 CAT NO: S79937

Of respiratory cancer deaths among a cohort of cadmium production carcinogens.

Teratogens:
Teratogens:
Reproductive Effects:
Neurologicity:
Reproductive Effects:
Neurologicity:
Reproductive Effects:
Neurologicity:
Reproductive Effects:
Neurologicity:
Reproductive Effects:
No data available.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
No data available.
**** SECTION 12 - DISPOSAL CONSIDERATIONS ****

Ecotoxicity:
Fish: Rainbow trout: 55ug/L; 48HFish: Fathead Minnow: 820ug/L; 48H

Fish: Rainbow trout: 55ug/L; 48HFish: Fathead Minnow: 820ug/L; 48H

Fish: Rainbow trout: 55ug/L; 48HFish: Fathead Minnow: 820ug/L; 48H

SECTION 13 - DISPOSAL CONSIDERATIONS ****

Ecotoxicity:
Fish: Rainbow trout: 55ug/L; 48HFish: Fathead Minnow: 820ug/L; 48H

Fish: Rainbow trout: 55ug/L; 48HFish: Fathead Minnow: 820ug/L; 48H

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in and local hazardous waste regulations to ensure complete and accurate RCRA p-Series: None listed.

***** SECTION 14 - TRANSPORT INFORMATION *****

US DOT
```

US FEDERAL TSCA

Canadian

No information available.

Shipping Name: THIS PACKAGE CONFORMS TO 49CFR 173.4

**** SECTION 15 - REGULATORY INFORMATION ****

CAS# 10022-68-1 is not on the TSCA inventory because it is a hydrate. It is considered to be listed if the CASA number for the anhydrous form is on the inventory (40CFR720.3 (u) (2)).

CAS# 10325-94-7 is listed on the TSCA inventory.

None of the chemicals are on the TSCA inventory.

None of the chemicals are in this product are under a Chemical Test Rule. Number of the chemicals in this product are under a Chemical Test Rule. Number of the chemicals in this material have a SNUR under TSCA.

SERCIA Hazardous Substances and corresponding RQs.

SARA Section 30.2 Extremely Hazardous Substances Number of the chemicals in this material have a TPQ.

SARA Codes of the chemicals in this material have a TPQ.

SARA Codes of the chemicals in this product have a TPQ.

SARA Codes of the chemicals in this product have a TPQ.

CAS # 10022-68-1: acute, chronic, flammable.

Section 313 - scute, chronic, flammable.

CAS# 10022-68-1 is not at a high enough concentration to be reportable under Section 313.

Clean Material is not at a high enough concentration to be reportable chaft not scale in this product have is listed as hazardous air pollutants (HAP).

This material does not contain any Class 1 Ozone depletors.

None of the chemicals in this product are listed as Hazardous air not seem of the chemicals in this product are listed as Priority chaft in the contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Priority chaft in the contain and the chemicals in this product are listed as Priority chaft in the contain and the chemicals in this product are listed as Priority chaft in the contain and the chemicals in this product are listed as Priority chaft in the contain and c

STATE Cadmium nitrate, tetrahydrate can

be

found on the following state

2,557

considered highly hazardous

under the Clean

Water

None of the chemicals in this product are by OSHA.

CAS# 10325-94-7 is listed as a Toxic Pollutant

OSHA:

```
EXPOSURE LIMITES

CASH 10328-94-7 IS ILSUEGG ON CRIGARIA STATEL O.1 mg (Cd)/m3

OELL-ARAB REPUBLIC OF EGYPT:TWA 0.05 mg (Cd)/m3

OELL-GENARK:TWA 0.05 mg (Cd)/m3

OELL-GENARK:TWA 0.05 mg (Cd)/m3

OELL-GENARK:TWA 0.05 mg (Cd)/m3

OELL-GILMARK:TWA 0.05 mg (Cd)/m3

OELL-GILMARK:TWA 0.05 mg (Cd)/m3

OELL-GILMARK:TWA 0.05 mg (Cd)/m3

OELL-THE NETHERLANDS:TWA 0.02 mg (Cd)/m3

OELL-THE NETHERLANDS:TWA 0.02 mg (Cd)/m3

OELL-THE NETHERLAND:TWA 0.05 mg (Cd)/m3

OELL-THE NETHERLAND:TWA 0.05 mg (Cd)/m3

OELL-THAILAND:TWA 0.02 mg (Cd)/m3

OELL-THAILAND:TWA 0.05 mg (Cd)/m3

OELL-GENARK:TWA 0.06 mg (Cd)/m3

OELL-GENARK:TWA 0.07 mg (Cd)/m3

OELL-GENARC:TWA 0.07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer.
California No Significant Risk Level:
California No Significant Risk Level:
None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Risk Phrases:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WGK (Water Danger/Protection)
CAS# 10022-68-1: No information available.
United Chimation Occupational E---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Canada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                United
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  right to know lists: California, (listed as ** no name **),
Milmesota, (listed as ** no name **)
Cadmium nitrate can be found on the following state right to know
lists: California, (listed as ** no name **), Minnesota, (listed as

** no name **)
The following statement(s) is(are) made in order to comply with
the California Safe Drinking Water Act:
WARNING: This product contains Cadmium nitrate, tetrahydrate, listed
as ** undefined **', a chemical known to the state of California to
cause cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cause cancer. WARNING: This product contains Cadmium nitrate, listed as ' ** undefined **', a chemical known to the state of California to cause
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kingdom Maximum Exposure Limits
CAS# 10022-68-1: MEL-United Kingdom, TWA (listed as ** undefines): 0.025 mg/m3 TWA (as Cd, except cadmium oxide fume, cadmium sulphide and cadmium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAS# 10325-94-7 is listed on Canada's DSL List.
This product has a WHMIS classification of C, DIA, D2A.
CAS# 10022-68-1 is not listed on Canada's Ingredient Disclosure List.
CAS# 10325-94-7 is listed on Canada's Ingredient Disclosure List.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08/17/05
D52252898
SECTION 16 - ADDITIONAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R 20/21/22 Harmful by inhalation, in contact wing skin and if swallowed. She contact with combustible material may cause \mathbb{R}, \theta. Contact with combustible material may cause
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fire.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCT: 463282001
CAT NO: 879937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PO NBR: 98970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in contact with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGE: 5
```

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the

2,558

MSDS Creation Date:

3/24/1999

Revision #3 Date: 12/03/2002

INDEX: 08/17/05 D52252898 ACCT CAT 1 NO: 463282001 879937 PO NBR: 98970 PAGE:

0

information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.