



Printing date 02/22/2001

Reviewed on 04/19/2000

1 Identification of substance:

- Product details:
- Product name: Gram Decolorizer
- Catalog number: 212528, 4312528
- Manufacturer/Supplier:
Becton, Dickinson and Company
7 Loveton Circle
Sparks, MD 21152
Tel: (410) 771-0100 or (800) 638-8663
- Information department: Technical Services
- Emergency information:
In case of a chemical emergency, spill, fire, exposure, or accident contact Becton, Dickinson and Company at (410) 771-0100 or (800) 638-8663, or ChemTrec at (800) 424-9300.

B-12528

2 Composition/Data on components:

- Chemical characterization
 - Description: Mixture of the substances listed below with nonhazardous additions.
 - Dangerous components:
- | | |
|---------------------|-------|
| 67-63-0 isopropanol | 75.0% |
| 67-64-1 acetone | 25.0% |

3 Hazards identification

- Hazard description:
-  Xi Irritant
F Highly flammable
- Information pertaining to particular dangers for man and environment
R 11 Highly flammable.
R 36 Irritating to eyes.
- Classification system
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0-4)

Health = 2
Fire = 3
Reactivity = 0

4 First aid measures

- After inhalation In case of unconsciousness place patient on side position for transportation.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- After swallowing Call a doctor immediately.

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Information for doctor Show this label

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5 Fire fighting measures

- Suitable extinguishing agents
CO₂, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
- Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Wipe up with damp sponge or mop.
- Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- Additional information:
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling
- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- Storage
- Requirements to be met by storerooms and receptacles: 15 - 30 °C
- Information about storage in one common storage facility:
Do not store together with oxidizing and acidic materials.
Do not store with halogens.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Storage class
- Class according to regulation on flammable liquids: B

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:

67-63-0 isopropanol
TLV Short-term value: 1230 mg/m ³ , 500 ml/m ³
Long-term value: 985 mg/m ³ , 400 ml/m ³
67-64-1 acetone
TLV Short-term value: 2380 mg/m ³ , 1000 ml/m ³
Long-term value: 1780 mg/m ³ , 750 ml/m ³

Additional information: The lists that were valid during the creation were used as basis.

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- Personal Protective Equipment
- General protective and hygienic measures
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Breathing equipment:
- In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:



Chemical resistant gloves.

- Eye protection: Safety glasses
- Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties:

• Form:	Liquid
• Color:	Colorless
• Odor:	Characteristic
• Change in condition	
• Melting point/Melting range: Not determined	
• Boiling point/Boiling range: 56.1 - 82°C (133 - 180°F)	
• Flash point:	-6.7°C (20°F)
• Ignition temperature:	425.0°C (797°F)
• Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
• Explosion limits:	
• Lower:	3.5 Vol %
• Upper:	18.0 Vol %
• Vapor pressure at 20°C (68°F): 186.0 hPa	
• Density at 20°C (68°F):	2.0 - 2.1 g/cm ³
• Solubility in / Miscibility with	
• Water:	Soluble
• Solvent content:	
• Organic solvents:	100.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known

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- Dangerous products of decomposition: Carbon monoxide (CO) and carbon dioxide (CO₂)

11 Toxicological information

• Acute toxicity:	
• LD/LC50 values that are relevant for classification:	
• 67-63-0 Isopropanol	
• Oral LD50	4570 mg/kg (rat)
• Dermal LD50	13400 mg/kg (rab)
• Inhalative LC50/4 h 30 mg/l (rat)	
• 67-64-1 acetone	
• Oral LD50	5800 mg/kg (rat)
• Dermal LD50	20000 mg/kg (rbt)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Irritating effect.
 - Sensitization: No sensitizing effects known.
 - Subacute to chronic toxicity: Target organs: kidney, spleen, and liver.
 - Additional toxicological information:
 - Irritant
- The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information:

- Ecotoxicological effects:
 - Other information: The ecological effects have not been thoroughly investigated, but currently none have been identified.
- General notes:
 - Water hazard class I (Self-assessment): slightly hazardous for water.
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
- Recommendation
 - Must not be disposed of with solid waste.
 - Must adhere to state and federal regulations.
 - Disposal must be made according to the regulations found in 40 CFR 261.
 - RCRA hazardous waste - RCRA # D001, F003 (ignitable, toxic).
- Uncleaned packagings:
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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14 Transport Information

DOT regulations:



- Hazard class: 3
- Identification number: UN1993
- Packing group: II
- Proper shipping name (technical name): Flammable liquid, n.o.s., (isopropanol, acetone)
- Land transport ADR/RID (cross-border)



- ADR/RID class: 3 Flammable liquids
- Item: 3b
- Danger code (Kemler): 33
- UN-Number: 1993
- Description of goods: 1993 Flammable liquid, n.o.s., (isopropanol, acetone)

Maritime transport IMDG:



- IMDG Class: 3.2
- Page: 3230
- UN Number: 1993
- Packing group: II
- EMS Number: 3-07
- MFAG: 310
- Marine pollutant: No
- Proper shipping name: Flammable liquid, n.o.s., (isopropanol, acetone)
- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1993
- Packing group: II
- Proper shipping name: Flammable liquid, n.o.s., (isopropanol, acetone)

15 Regulations

- Product related hazard informations:
The product has been classified and marked in accordance with regulations on hazardous materials.

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- Hazard symbols:
Xi Irritant
F Highly flammable

Hazard-determining components of labelling:

isopropanol
acetone

- Risk phrases:
11 Highly flammable.
36 Irritating to eyes.

Safety phrases:

- 709 Keep container tightly closed and in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 24/25 Avoid contact with skin and eyes.
- 60 This material and its container must be disposed of as hazardous waste.

National regulations

- Additional classification according to Decree on Hazardous Materials:
CERCLA: This product contains Acetone which has a Reporting Quantity (RQ) of 5000#.

SARA 311/312: Subject to reporting.

TSCA: This product is exempt under TSCA.

Technical instructions (at):

Class	Share in %
III	100,0

Water hazard class: Water hazard class I (Self-assessment): slightly hazardous for water.

16 Other informations:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Department issuing MSDS: Safety & Environment Department

Contact: Technical Service Representative

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