

Material Safety Data Sheet

Revision Date 26-Oct-2011

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|--------------------------------|---------------------------------------|
| Product Name | Gram Decolorizer |
| Cat No. | R40054, R40055, R40075 |
| Synonyms | No information available. |
| Recommended Use | Laboratory chemicals |
| Company | Emergency Telephone Number |
| Remel | INFOTRAC - 24 Hour Number: 1-800- |
| 12076 Santa Fe Drive | 535-5053 |
| Lenexa, KS 66215 United States | Outside of the United States, call 24 |
| Telephone: 1-800-255-6730 | Hour Number: 001-352-323-3500 (Call |
| Fax: 1-800-621-8251 | Collect) |

2. HAZARDS IDENTIFICATION

DANGER!**Emergency Overview**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms. Oxidizing agent. Heating may cause an explosion. Causes respiratory tract burns.

Appearance Clear**Physical State** Liquid**odor** pungent**Target Organs**

Blood, Liver, Respiratory system, Central nervous system (CNS), Eyes, Reproductive System, Gastrointestinal tract (GI), Skin, Optic nerve

Potential Health Effects**Acute Effects****Principle Routes of Exposure****Eyes**

May cause irritation

Skin

May cause irritation

Inhalation

Vapor harmful.

Ingestion

Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous.

Chronic Effects

None known

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions

Central nervous system disorders. Gastrointestinal tract. Preexisting eye disorders. Liver disorders. Skin disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

| Component | CAS-No | Weight % |
|----------------|---------|----------|
| Acetone | 67-64-1 | 50 |
| Ethyl alcohol | 64-17-5 | 48 |
| Methyl alcohol | 67-56-1 | 3 |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes |
| Inhalation | Move to fresh air |
| Ingestion | Do not induce vomiting |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---------------------------|
| Flash Point | 0°C / 32°F |
| Method | No information available. |
| Autoignition Temperature | No information available. |
| Explosion Limits | |
| Upper | 13.0% |
| Lower | 2.2% |
| Unsuitable Extinguishing Media | No information available. |
| Hazardous Combustion Products | No information available. |
| Sensitivity to mechanical impact | No information available. |
| Sensitivity to static discharge | No information available. |

Specific Hazards Arising from the Chemical
Flammable.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA **Health 2** **Flammability 3** **Instability 0** **Physical hazards N/A**

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal Precautions | Remove all sources of ignition. Use personal protective equipment. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. |

Methods for Containment and Clean Up No information available

7. HANDLING AND STORAGE

Handling Ensure adequate ventilation

Storage Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------|---------------------------------------|--|--|
| Acetone | TWA: 500 ppm STEL: 750 ppm | (Vacated) TWA: 750 ppm (Vacated) TWA: 1800 mg/m ³ (Vacated) STEL: 2400 mg/m ³ (Vacated) STEL: 1000 ppm TWA: 1000 ppm TWA: 2400 mg/m ³ | IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³ |
| Ethyl alcohol | STEL: 1000 ppm | (Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³ | IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³ |
| Methyl alcohol | TWA: 200 ppm STEL: 250 ppm Skin | (Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m ³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m ³ Skin TWA: 200 ppm TWA: 260 mg/m ³ | IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ |

| Component | Quebec | Mexico OEL (TWA) | Ontario TWAEV |
|----------------|--|--|---------------------------------------|
| Acetone | TWA: 500 ppm TWA: 1190 mg/m ³ STEL: 1000 ppm STEL: 2380 mg/m ³ | TWA: 1000 ppm TWA: 2400 mg/m ³ STEL: 1260 ppm STEL: 3000 mg/m ³ | TWA: 500 ppm STEL: 750 ppm |
| Ethyl alcohol | TWA: 1000 ppm TWA: 1880 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ | STEL: 1000 ppm |
| Methyl alcohol | TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin | TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³ | TWA: 200 ppm STEL: 250 ppm Skin |

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

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

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|---------------------------|
| Physical State | Liquid |
| Appearance | Clear |
| odor | pungent |
| Odor Threshold | No information available. |
| pH | 6.0 - 7.0 |
| Vapor Pressure | No information available. |
| Vapor Density | No information available. |
| Viscosity | No information available. |
| Boiling Point/Range | 56.1°C / 133°F |
| Melting Point/Range | -116°C / -176.8°F |
| Decomposition temperature | No information available. |
| Flash Point | 0°C / 32°F |
| Evaporation Rate | No information available. |
| Specific Gravity | 0.77 - 0.8 @ 25°C |
| Solubility | Soluble in water |
| log Pow | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Conditions to Avoid | Incompatible products |
| Incompatible Materials | Strong oxidizing agents |
| Hazardous Decomposition Products | None under normal use conditions |
| Hazardous Polymerization | Hazardous polymerization does not occur |
| Hazardous Reactions . | None under normal processing. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|--------------------|------------------------|--|
| Acetone | 5800 mg/kg (Rat) | Not listed | Not listed |
| Ethyl alcohol | 7060 mg/kg (Rat) | Not listed | 20000 ppm/10H (Rat) |
| Methyl alcohol | 5628 mg/kg (Rat) | 15800 mg/kg (Rabbit) | 64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h |

Irritation No information available.

Toxicologically Synergistic Products No information available.

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | ACGIH | IARC | NTP | OSHA | Mexico |
|---------------|-------|---------|------------|------|------------|
| Ethyl alcohol | A3 | Group 1 | Not listed | X | Not listed |

ACGIH: (American Conference of Governmental Industrial Hygienists)

- A1 - Known Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)

- IARC: (International Agency for Research on Cancer)
- Group 1 - Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans

Sensitization

No information available.

Mutagenic Effects

No information available.

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

Other Adverse Effects

The toxicological properties have not been fully investigated.

Endocrine Disruptor Information

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|----------------|------------------|--|---|--|
| Acetone | Not listed | Leuciscus idus: LC50 = 11300 mg/L/48h Salmo gairdneri: LC50 = 6100 mg/L/24h | EC50 = 14500 mg/L/15 min | EC50 = 39 mg/L/48h EC50 = 12700 mg/L/48h EC50 = 12600 mg/L/48h |
| Ethyl alcohol | Not listed | Leuciscus idus: LC50 = 8.14 mg/L/48h | Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min | EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h |
| Methyl alcohol | Not listed | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min | EC50 > 10000 mg/L 24h |

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available

Mobility

| Component | log Pow |
|-----------|---------|
|-----------|---------|

| Component | log Pow |
|----------------|---------|
| Acetone | -0.24 |
| Ethyl alcohol | -0.32 |
| Methyl alcohol | -0.74 |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

| Component | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Acetone - 67-64-1 | U002 | - |
| Methyl alcohol - 67-56-1 | U154 | - |

14. TRANSPORT INFORMATION

DOT

UN-No 1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Hazard Class 3
Packing Group II

TDG

UN-No 1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Hazard Class 3
Packing Group II

IATA

UN-No 1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Hazard Class 3
Packing Group II

IMDG/IMO

UN-No 1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Hazard Class 3
Packing Group II

15. REGULATORY INFORMATION

International Inventories

| 15. REGULATORY INFORMATION | | | | | | | | | | | |
|----------------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | CHINA | KECL |
| Acetone | X | X | - | 200-662-2 | - | | X | X | X | X | X |
| Ethyl alcohol | X | X | - | 200-578-6 | - | | X | X | X | X | X |
| Methyl alcohol | X | X | - | 200-659-6 | - | | X | X | X | X | X |

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

| Component | CAS-No | Weight % | SARA 313 - Threshold Values % |
|----------------|---------|----------|-------------------------------|
| Methyl alcohol | 67-56-1 | 3 | 1.0 |

SARA 311/312 Hazardous Categorization

| | |
|-----------------------------------|-----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

Not applicable

Clean Air Act

| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|-----------|-------------------------|-------------------------|
| Methyl alcohol | X | | - |

OSHA

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------|--------------------------|----------------|
| Acetone | 5000 lb | - |
| Methyl alcohol | 5000 lb | - |

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Component | CAS-No | California Prop. 65 | Prop 65 NSRL |
|---------------|---------|---------------------|--------------|
| Ethyl alcohol | 64-17-5 | Developmental | - |

State Right-to-Know

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Acetone | X | X | X | - | X |
| Ethyl alcohol | X | X | X | - | X |
| Methyl alcohol | X | X | X | X | X |

U.S. Department of Transportation

Reportable Quantity (RQ): Y
 DOT Marine Pollutant N
 DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product contains the following DHS chemicals:

| Component | DHS Chemical Facility Anti-Terrorism Standard |
|-----------|---|
| Acetone | 2000 lb STQ |

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid
 D2A Very toxic materials



16. OTHER INFORMATION

Prepared By Regulatory Affairs
Remel
Tel: 1-800-255-6730

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Revision Summary

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS