

# SAFETY DATA SHEET

Revision Date 25-Oct-2017 Revision Number 3

## 1. Identification

Product Name Enhanced Gram Crystal Violet

Cat No.: R40225, R40226

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

### Company

Remel

12076 Santa Fe Drive

Lenexa, KS 66215 United States Telephone: 1-800-255-6730

Fax:1-800-621-8251

**Emergency Telephone Number** 

INFOTRAC - 24 Hour Number: 1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Specific target organ toxicity - (repeated exposure)

Category 1

Category 1

Target Organs - Liver, Blood.

### Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Flammable liquid and vapor

Causes damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

### **Enhanced Gram Crystal Violet**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

### Response

IF exposed or concerned: Get medical attention/advice

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

## Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

# 3. Composition / information on ingredients

| Component                     | CAS-No    | Weight % |
|-------------------------------|-----------|----------|
| C.I. Basic violet 1           | 548-62-9  | < 1.0    |
| Ethyl alcohol                 | 64-17-5   | 8.0      |
| Methyl alcohol                | 67-56-1   | < 1.0    |
| Ammonium oxalate, monohydrate | 6009-70-7 | < 1.0    |

# 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

None reasonably foreseeable. Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed

containers exposed to fire with water spray.

Unsuitable Extinguishing Media No information available

**Flash Point** 54.4 °C / 129.9 °F

Method - No information available

**Autoignition Temperature** 

No information available

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

None known

#### **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

HealthFlammabilityInstabilityPhysical hazards330N/A

## 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Remove all sources of

ignition. Take precautionary measures against static discharges.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional ecological

information. Avoid release to the environment. Collect spillage.

**Methods for Containment and Clean** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Up**Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# 7. Handling and storage

**Handling** Ensure adequate ventilation. Wear personal protective equipment. Do not get in eyes, on

skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary

measures against static discharges.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat

and sources of ignition.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

| Component      | ACGIH TLV      | OSHA PEL                              | NIOSH IDLH                  | Mexico OEL (TWA)            |
|----------------|----------------|---------------------------------------|-----------------------------|-----------------------------|
| Ethyl alcohol  | STEL: 1000 ppm | (Vacated) TWA: 1000 ppm               | IDLH: 3300 ppm              | TWA: 1000 ppm               |
|                |                | (Vacated) TWA: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm               | TWA: 1900 mg/m <sup>3</sup> |
|                |                | TWA: 1000 ppm                         | TWA: 1900 mg/m <sup>3</sup> |                             |
|                |                | TWA: 1900 mg/m <sup>3</sup>           |                             |                             |
| Methyl alcohol | TWA: 200 ppm   | (Vacated) TWA: 200 ppm                | IDLH: 6000 ppm              | TWA: 200 ppm                |
|                | STEL: 250 ppm  | (Vacated) TWA: 260 mg/m <sup>3</sup>  | TWA: 200 ppm                | TWA: 260 mg/m <sup>3</sup>  |
|                | Skin           | (Vacated) STEL: 250 ppm               | TWA: 260 mg/m <sup>3</sup>  | STEL: 250 ppm               |
|                |                | (Vacated) STEL: 325 mg/m <sup>3</sup> | STEL: 250 ppm               | STEL: 310 mg/m <sup>3</sup> |
|                |                | Skin                                  | STEL: 325 mg/m <sup>3</sup> |                             |
|                |                | TWA: 200 ppm                          |                             |                             |
|                |                | TWA: 260 mg/m <sup>3</sup>            |                             |                             |

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting/equipment.

**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** Long sleeved clothing.

**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.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical StateLiquidAppearancePurple

OdorNo information availableOdor ThresholdNo information availablepHNo information availableMelting Point/RangeNo data available

Melting Point/RangeNo data availableBoiling Point/RangeNo information availableFlash Point54.4 °C / 129.9 °FEvaporation RateNo information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper
Lower
No data available
No data available
No data available
No information available
Vapor Density
No information available
Specific Gravity
No information available
No information available
No information available

Partition coefficient; n-octanol/water

No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

VOC Content(%) 8.9999

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition.

**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** 

**Product Information** 

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. **Dermal LD50** Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

| Component           | LD50 Oral  | LD50 Dermal   | LC50 Inhalation  |
|---------------------|--|---|--|
| C.I. Basic violet 1 | LD50 = 420 mg/kg ( Rat )                               | Not listed  | Not listed   |
| Ethyl alcohol       | LD50 = 7060 mg/kg ( Rat )                              | Not listed  | 20000 ppm/10H ( Rat )  |
| Methyl alcohol      | Calc. ATE 60 mg/kg<br>LD50 > 1187 – 2769 mg/kg ( Rat ) | Calc. ATE 60 mg/kg<br>LD50 = 17100 mg/kg ( Rabbit ) | Calc. ATE 0.6 mg/L (vapours) or<br>0.5 mg/L (mists)<br>LC50 = 128.2 mg/L ( Rat ) 4 h |

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available Irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed and

abused as an alcoholic beverage.

| Component           | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|---------------------|-----------|------------|------------|------------|------------|------------|
| C.I. Basic violet 1 | 548-62-9  | Not listed |
| Ethyl alcohol       | 64-17-5   | Group 1    | Known      | A3         | X          | Not listed |
| Methyl alcohol      | 67-56-1   | Not listed |
| Ammonium oxalate,   | 6009-70-7 | Not listed |

IARC: (International Agency for Research on Cancer)

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Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

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)

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure Liver Blood

Aspiration hazard No information available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

### **Ecotoxicity**

Contains a substance which is:. Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component           | Freshwater Algae  | Freshwater Fish                            | Microtox   | Water Flea   |
|---------------------|---|--|--|--|
| C.I. Basic violet 1 | EC50 = 0.025 - 0.8 mg/l, 72<br>h (Pseudokirchneriella<br>subcapitata)<br>OECD 201 | Not listed                                 | Not listed   | EC50 = 0.24 - 5 mg/l, 48 h<br>(Daphnia magna (Water<br>flea)) OECD 202 |
| Ethyl alcohol       | EC50 (72h) = 275 mg/l<br>(Chlorella vulgaris)                                     | LC50 = 14200 mg/l/96h                      | Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min | S  |
| Methyl alcohol      | Not listed  | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>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 |
|-------------------------------|---------|
| C.I. Basic violet 1           | 0.51    |
| Ethyl alcohol                 | -0.32   |
| Methyl alcohol                | -0.74   |
| Ammonium oxalate, monohydrate | -2.3    |

# 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 |
|---|--------------------------|------------------------|------------------------|
| ı | Methyl alcohol - 67-56-1 | U154                   | -                      |

# 14. Transport information

DOT

**UN-No** 1170

Proper Shipping Name ETHANOL SOLUTION

Hazard Class 3
Packing Group III

<u>TDG</u>

**UN-No** 1170

Proper Shipping Name ETHANOL SOLUTION

Hazard Class 3
Packing Group III

<u>IATA</u>

**UN-No** 1170

Proper Shipping Name ETHANOL SOLUTION

Hazard Class 3
Packing Group III

IMDG/IMO

**UN-No** 1170

Proper Shipping Name ETHANOL SOLUTION

Hazard Class 3
Packing Group III

# 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

| Component           | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|---------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| C.I. Basic violet 1 | Х    | Х   | -    | 208-953-6 | -      |     | Х     | Χ    | Χ    | Χ     | Х    |
| Ethyl alcohol       | Х    | Х   | -    | 200-578-6 | -      |     | Х     | Χ    | Х    | Х     | Х    |
| Methyl alcohol      | Х    | Х   | -    | 200-659-6 | -      |     | Х     | Χ    | Х    | Х     | Х    |
| Ammonium oxalate,   | -    | -   | -    | -         | -      |     | Х     | Χ    | Х    | Х     | -    |
| monohydrate         |      |     |      |           |        |     |       |      |      |       |      |

## 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<br>Values % |
|----------------|---------|----------|----------------------------------|
| Methyl alcohol | 67-56-1 | < 1.0    | 1.0                              |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes Chronic Health Hazard Yes

Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

**CWA (Clean Water Act)** 

| Component                     | CWA - Hazardous<br>Substances | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|-------------------------------|-------------------------------|--------------------------------|------------------------|---------------------------|
| Ammonium oxalate, monohydrate | X                             | -                              | -                      | -                         |

#### Clean Air Act

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

**OSHA** Occupational Safety and Health Administration 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 |
|-------------------------------|--------------------------|----------------|
| Methyl alcohol                | 5000 lb                  | -              |
| Ammonium oxalate, monohydrate | 5000 lb                  | -              |

### **California Proposition 65**

This product contains the following proposition 65 chemicals

| Component      | CAS-No  | California Prop. 65    | Prop 65 NSRL | Category      |
|----------------|---------|------------------------|--------------|---------------|
| Ethyl alcohol  | 64-17-5 | Development (alcoholic | -            | Developmental |
|                |         | beverages only)        |              | Carcinogen    |
| Methyl alcohol | 67-56-1 | Developmental          | -            | Developmental |

### U.S. State Right-to-Know

Regulations

| rtogulationo      |               |            |              |          |              |  |  |  |
|-------------------|---------------|------------|--------------|----------|--------------|--|--|--|
| Component         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |  |  |  |
| Ethyl alcohol     | X             | Х          | Х            | X        | Х            |  |  |  |
| Methyl alcohol    | X             | X          | Х            | X        | X            |  |  |  |
| Ammonium oxalate, | X             | -          | Х            | -        | -            |  |  |  |
| monohydrate       |               |            |              |          |              |  |  |  |

## **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 does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade Moderate risk, Grade 2

Prepared By Regulatory Affairs

Remel

Tel: 1-800-255-6730

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of SDS**