

SAFETY DATA SHEET

Agrocer Violet 023 disp.

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Substance key: SXR003727

Revision Date: 09/28/2022

Version : 4 - 11 / USA

Date of printing :12/10/2022

SECTION 1. IDENTIFICATION

Identification of the company:	Heubach Colorants Germany GmbH Brüningstraße 50 Frankfurt am Main, 65929 Telephone No.: +49 69 305 13619
Information of the substance/preparation:	Product Stewardship, +1-704-331-7039 e-mail: SDS.PI.NORAM@clariant.com
Emergency tel. number:	+1 800-424-9300 CHEMTREC

Trade name: Agrocer Violet 023 disp.

Material number: 276828

Primary product use: Agricultural Industry

Chemical family: C.I. Pigment Violet 23 in aqueous dispersion, containing glycerine

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Hazards Not Otherwise Classified:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycerine	56-81-5	>= 30 - < 50
Alcohols, C12-14 ethoxylated, sulfates, sodium salts	68891-38-3	>= 5 - < 10

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.

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- Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.
- If swallowed : Rinse mouth.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Get medical advice/ attention.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Carbon dioxide (CO₂)
Foam
Dry chemical
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulphur dioxide
Hydrogen chloride
- Burning produces noxious and toxic fumes.
- Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbents. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove

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contaminated soils. place in appropriate containers.

- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Use only with adequate ventilation/personal protection.
For personal protection see section 8.
Avoid contact with skin, eyes and clothing.
Use only with adequate ventilation.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Further information on storage conditions : Store in original container.
Keep container tightly closed.
Store in a cool, dry, well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerine	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m ³	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m ³	OSHA P0
Glycerine	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Mist -	10 mg/m ³	OSHA P0

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		total dust)		
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

Engineering measures : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

Protective measures : Wear suitable protective equipment.

Hygiene measures : Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
Take off immediately all contaminated clothing and wash it before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Very viscous

Colour : violet

Odour : not specified

Odour Threshold : not determined

pH : 8.2 (68 °F / 20 °C)

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Melting point	:	no data available
Boiling point	:	> 212 °F / > 100 °C (1,013 hPa)
Flash point	:	> 212 °F / > 100 °C
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	no data available
Density	:	1.1 - 1.4 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	miscible
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 212 °F / > 100 °C
Viscosity		
Viscosity, dynamic	:	200 - 1,500 mPa.s (73 °F / 23 °C)
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Molecular weight	:	no data available
Metal corrosion rate	:	no data available

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Minimum ignition energy : not determined

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Stable

Conditions to avoid : None known.

Incompatible materials : no data available

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact

Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : Remarks: no data available

Components:

Glycerine:

Acute oral toxicity : LD50 (Rat, female): 27,200 mg/kg
Method: Other
GLP: no

Acute inhalation toxicity : LC50 (Rat, male): 4,655 mg/l
Exposure time: 7 h
Test atmosphere: vapour
Method: Other
GLP: no

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg
Method: Other
GLP: no

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Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

- Acute oral toxicity : LD50 (Rat, male and female): 2,870 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

- Species : Rabbit
Result : No skin irritation
Remarks : The toxicological data has been taken from products of similar composition.

Components:

Glycerine:

- Species : Rabbit
Exposure time : 24 h
Method : Other
Result : No skin irritation
GLP : no

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

- Species : Rabbit
Method : OECD Test Guideline 404
Result : Irritating to skin.

Serious eye damage/eye irritation

Product:

- Species : rabbit eye
Result : No eye irritation
Remarks : The toxicological data has been taken from products of similar composition.

Components:

Glycerine:

- Species : rabbit eye
Result : non-irritant
Exposure time : <= 7 d
Method : Other
GLP : no

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Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Result : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Result : No sensitisation effects are known
Remarks : By analogy with a product of similar composition

Components:

Glycerine:

Remarks : not required

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Assessment : Causes skin irritation., Causes serious eye damage.

Germ cell mutagenicity

Components:

Glycerine:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 100 - 10000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 100 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: No information available.

Test Type: Unscheduled DNA synthesis
Test system: rat hepatocytes
Concentration: 100 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 482
Result: negative
GLP: No information available.

Test Type: In vitro gene mutation study in mammalian cells

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Test system: Chinese hamster ovary cells
Concentration: 100 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 0, 11, 56, 280, 1400, 7000 µg/
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Bone marrow cells
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow cells
Application Route: oral (gavage)
Dose: 1000, 2000 mg/kg bw/day
Method: OECD Test Guideline 475
Result: negative

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Components:

Glycerine:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

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IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

No information available.

Components:

Glycerine:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Drinking water
Dose: 2000 mg/kg
General Toxicity - Parent: NOAEL: > 2,000 mg/kg body weight
General Toxicity F1: NOAEL: > 2,000 mg/kg body weight
General Toxicity F2: NOAEL: > 2,000 mg/kg body weight
Method: Other
GLP: no

Effects on foetal development : Species: Rat
Strain: wistar
Application Route: oral (gavage)
Dose: 1,31-60,8-282-1310mg/kg
General Toxicity Maternal: NOAEL: 1,310 mg/kg body weight
Teratogenicity: NOAEL: 1,310 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: Drinking water
Dose: 30, 100, 300 mg/kd bw/day
General Toxicity - Parent: NOAEL: 300 mg/kg body weight
General Toxicity F1: NOAEL: 300 mg/kg body weight

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Method: OECD Test Guideline 416

GLP: yes

Effects on foetal development

: Species: Rat, female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 100, 300, 1000 mg/kg bw/day
General Toxicity Maternal: NOAEL: > 1,000 mg/kg body weight
Embryo-foetal toxicity: NOAEL: > 1,000 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

STOT - single exposure

Product:

Remarks : no data available

Components:

Glycerine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Glycerine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Glycerine:

Species : Rat, male and female
NOAEL : 8,000 - 10,000 mg/kg
Application Route : oral (feed)
Exposure time : 2 a
Number of exposures : daily
Dose : 5 - 10 - 20 % in diet
Control Group : yes
Method : Other
GLP : no

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Species : Rat, male and female
NOAEL : 0.167 mg/l
Application Route : Inhalation
Exposure time : 13 w
Number of exposures : 6 hours/day, 5 days/week
Dose : 33 - 165 - 660 mg/m³
Control Group : yes
Method : OECD Test Guideline 413
GLP : No information available.

Species : Rabbit
NOAEL : 5,040 mg/kg
Application Route : Skin contact
Exposure time : 45 w
Number of exposures : 8 hours/day, 5 days/week
Dose : 0,5 - 4,0 ml/kg
Control Group : yes
Method : Other
GLP : no

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Species : Rat, male and female
NOAEL : > 225 mg/kg
Application Route : oral (gavage)
Exposure time : 90 d
Number of exposures : daily
Dose : 25, 75, 225 mg/kg bw/day
Control Group : yes
Method : OECD Test Guideline 408
GLP : yes

Species : Mouse, male and female
NOAEL : > 6.91 mg/kg
Exposure time : 91 d
Number of exposures : 5 per week
Dose : 2,38, 6,91 mg/day
Control Group : yes
Method : OECD Test Guideline 411

Repeated dose toxicity - Assessment : Causes skin irritation., Causes serious eye damage.

Aspiration toxicity

Product:

no data available

Components:

Glycerine:

No aspiration toxicity classification

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Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 100 - 220 mg/l
Exposure time: 96 h
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Components:**Glycerine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no data available
Method: Other
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no data available
Method: OECD Test Guideline 202
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : NOEC (Scenedesmus quadricauda (Green algae)): >= 10,000 mg/l
End point: Biomass
Exposure time: 8 d
Test Type: static test

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Analytical monitoring: no data available

Method: Other

GLP: no

Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 10,000 mg/l
End point: Bacteria toxicity (growth inhibition)
Exposure time: 16 h
Test Type: aquatic
Analytical monitoring: no data available
Method: Other
GLP: No information available.

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7.1 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7.4 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 27.7 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 4.4 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.14 mg/l

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toxicity) Exposure time: 28 d
Test Type: flow-through test
Method: OECD Test Guideline 204

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.27 mg/l
aquatic invertebrates
(Chronic toxicity) Exposure time: 21 d
Test Type: flow-through test
Method: OECD Test Guideline 211
Remarks: By analogy with a product of similar composition

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Remarks: slightly soluble
May be separated mechanically in waste water plants.

Components:

Glycerine:

Biodegradability : aerobic
Inoculum: activated sludge, industrial
Concentration: 226 mg/l
TOC
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 24 h
Method: Other
GLP: no

Alcohols, C12-14 ethoxylated, sulfates, sodium salts:

Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: >= 77 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

Glycerine:

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

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Mobility in soil

Components:

Glycerine:

Distribution among environmental compartments : Remarks: Not applicable

Other adverse effects

Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : There is no data available for this product.

Components:

Glycerine:

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Act
Waste Code : NONE

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

Contaminated packaging : This material and its container must be disposed of in a safe way.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted

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IMDG not restricted

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Glycerine	56-81-5	>= 30 - < 50 %
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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)

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OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
OSHA P0 / TWA : 8-hour time weighted average
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements
For additional information, contact Product Stewardship.

Revision Date : 09/28/2022

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SAFETY DATA SHEET



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Revision Date: 09/28/2022

Version : 4 - 11 / USA

Date of printing :12/10/2022

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