

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/16/2019 Supersedes: 02/15/2016

SECTION 1: Identification

Identification

Product form : Mixture Product name : 4100-A Product code 4100-A

: 4100-A/1, 4100-A/5, 4100-A/55, 4100-A/5SF Other means of identification

Recommended use and restrictions on use

No additional information available

1.3. **Supplier**

Protective Industrial Polymers 7875 Bliss Parkway North Ridgeville, Ohio 44039 - USA-Ohio T 440-327-0015 www.protectpoly.com

Emergency telephone number

Emergency number : Chemtrec: 800-424-9300 (Outside USA) 703-527-3887

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Serious eve damage/eve Causes serious eye irritation H319 irritation Category 2A

Skin sensitization Category H317

Hazardous to the aquatic

H402

environment - Acute Hazard Category 3

Full text of H statements : see section 16

May cause an allergic skin reaction

Harmful to aquatic life

GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

Hazard statements (GHS-US) H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H402 - Harmful to aquatic life

Precautionary statements (GHS-US) : P261 - Avoid breathing vapors

P264 - Wash hands, forearms and face thoroughly after handling

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective clothing

P302+P352 - If on skin: Wash with plenty of soap

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see a doctor if symptoms do not go away, on this label)

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/container to in accordance with local regulations

2.3. Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	GHS-US classification
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine	(CAS No) 54914-37-3	5 - 15	Not classified
2-Butenedioic acid (E)-, diethyl ester	(CAS No) 623-91-6	0 - 5	Acute Tox. 4 (Oral), H302
1-octene	(CAS No) 111-66-0	0 - 0.01	Flam. Liq. 2, H225

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: Call a poison center/doctor/physician if you feel unwell. First-aid measures after ingestion

Most important symptoms and effects (acute and delayed)

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact Eye irritation.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Special protective equipment and precautions for fire-fighters 5.3.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapors.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions**

Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

64 Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing vapors. Wear personal protective equipment.

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Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Butenedioic acid (E)-, diethyl ester (623-91-6)

Not applicable

1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine (54914-37-3)

Not applicable

1-octene (111-66-0)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color clear Colorless Odor slight Sweet odour Odor threshold : No data available Ηq No data available Melting point : Not applicable Freezing point No data available Boiling point No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density : No data available Solubility No data available Log Pow : No data available

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: No data available

: No data available

: No data available

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Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-Butenedioic acid (E)-, diethyl ester (623-91-6)	
LD50 oral rat	1780 mg/kg (Rat, Oral)
ATE US (oral)	1780 mg/kg body weight

1-octene (111-66-0)	ctene (111-66-0)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)	
LC50 inhalation rat (mg/l)	37 mg/l (4 h, Rat, Inhalation)	
LC50 inhalation rat (ppm)	8050 ppm (4 h, Rat, Inhalation)	
ATE US (gases)	8050 ppmV/4h	
ATE US (vapors)	37 mg/l/4h	
ATE US (dust, mist)	37 mg/l/4h	

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Eye irritation.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.

1-octene (111-66-0)	
LC50 fish 1	3.2 - 10 mg/l (96 h, Pisces)
EC50 Daphnia 1	3.2 - 10 mg/l (48 h, Daphnia magna)

12.2. Persistence and degradability

2-Butenedioic acid (E)-, diethyl ester	P-Butenedioic acid (E)-, diethyl ester (623-91-6)	
Persistence and degradability	Biodegradability in soil: no data available.	
1-octene (111-66-0)		
Persistence and degradability	Readily biodegradable in water.	

12.3. Bioaccumulative potential

2-Butenedioic acid (E)-, diethyl ester (623-91-6)	
Bioaccumulative potential	No bioaccumulation data available.
1-octene (111-66-0)	
Log Pow	4.57
Bioaccumulative potential	Bioaccumable.

12.4. Mobility in soil

1-octene (111-66-0)	
Surface tension	0.022 N/m (20 °C)

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

TDG

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

4100-A

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: Disclaimer: This SDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200 and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

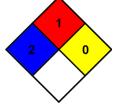
medical attention is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT Physical react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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