

3100-B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/11/2020 Supersedes: 07/15/2015

SECTION 1: Identification				
1.1. Identification				
Product form Product name Product code Other means of identification		: Mixture : 3100-B : 3100-B : 3100-B/55, 3100-B/5SF		
1.2. Recommended use		·		
1.2. Recommended use	and restriction	is on use		
4.0 Ourselier				
1.3. Supplier				
Protective Industrial Polymer 7875 Bliss Parkway North Ridgeville, Ohio 44039 T 440-327-0015 www.protectpoly.com				
1.4. Emergency telepho	one number			
Emergency number		: CHEMTREC: 800-424-9300 (Outside USA) 703-527-3887.		
SECTION 2: Hazard(s)	identificatio	n		
2.1. Classification of th	e substance or	mixture		
GHS US classification				
Acute toxicity (oral) Category 4	H302	Harmful if swallowed		
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled		
Skin corrosion/irritation Category 1A	H314	Causes severe skin burns and eye damage		
Skin sensitization Category	H317	May cause an allergic skin reaction		

May cause damage to organs (oral)

Full text of H statements : see section 16

H371

GHS US labeling

Category 2

Specific target organ

toxicity (single exposure)

1

Hazard pictograms (GHS-US)

Signal word (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H371 - May cause damage to organs (oral)
Precautionary statements (GHS-US)	 P260 - Do not breathe vapors P261 - Avoid breathing vapors P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective clothing P301+P312 - If swallowed: Call a doctor if you feel unwell P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P302+P352 - If on skin: Wash with plenty of soap P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
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skin with	water/shower
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- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor
- P312 Call a doctor if you feel unwell
- P321 Specific treatment (see a doctor if symptoms do not go away. on this label)
- P330 Rinse mouth
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
 - P363 Wash contaminated clothing before reuse
- P405 Store locked up
- 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

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Benzenemethanol	(CAS-No.) 100-51-6	< 40	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Formaldehyde, polymer with benzenamine, hydrogenated	(CAS-No.) 135108-88-2	40 - 40	Acute Tox. 4 (Oral), H302
1-Piperazine ethanamine	(CAS-No.) 140-31-8	0 – 15	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314
(4,4'-diaminodicyclohexyl)methane	(CAS-No.) 1761-71-3	0 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Skin Sens. 1B, H317 STOT SE 2, H371 Aquatic Acute 2, H401
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2	0 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315

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

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and e	ffects (acute and delayed)
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
4.3. Immediate medical attention and	special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Suitable (and unsuitable) extinguishing	ng media	
Suitable	extinguishing media	: Alcohol resistant foam, water, water fog, CO2, dry chemical, dry sand, limestone powder.	

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5.2. Specific hazards arising from the ch	emical			
Fire hazard				
Explosion hazard	: may be ignited by sparks.			
Hazardous decomposition products in case of	: TO BE COMPLETED			
fire	TO BE COMPLETED			
5.3. Special protective equipment and pr				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective equ	Jipment and emergency procedures			
6.1.1. For non-emergency personnel				
No additional information available				
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.				
6.3. Methods and material for containme	nt and cleaning up			
For containment	: Contain released product, pump into suitable containers.			
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. 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	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.			
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, includir	ig any incompatibilities			
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up.			
Incompatible materials	: Combustible materials. Sources of ignition.			
SECTION 8: Exposure controls/perso	onal protection			
3.1. Control parameters				

3100-В			
No additional information available			
Benzenemethanol (100-51-6)			
No additional information available			
1-Piperazine ethanamine (140-31-8)			
No additional information available			
(4,4'-diaminodicyclohexyl)methane (1761-71-3)			
No additional information available			
Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)			
No additional information available			
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)			
No additional information available			

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8.2. Appro	priate engineering controls	
	gineering controls exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Indivi	dual protection measures/Perso	onal protective equipment

Hand protection:

protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection

Personal protective equipment symbol(s):



SECTION & Physical and shemical m	conortion	
SECTION 9: Physical and chemical p	-	
9.1. Information on basic physical and ch		
Physical state	: Liquid	
Color	: amber	
Odor	: Ammonical	
Odor threshold	: No data available	
рН	: Alkaline	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: > 392 °F	
Flash point	: > 100 °C	
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	: 1.03	
Solubility	: Water: < 0.1 g/l	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
J.2. Other information		

No additional information available

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
Product is not explosive.			
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10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
Will not occur.			
10.4. Conditions to avoid			
Avoid contact with hot surfaces. Heat. No flames	, no sparks. Eliminate all sources of ignition.		
10.5. Incompatible materials			
organic acids.			
10.6. Hazardous decomposition products			
Ammonia. Aldehydes. Carbon dioxide. Carbon m	onoxide. Nitrogen.		
SECTION 11: Toxicological informat	on		
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Harmful if swallowed.		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Harmful if inhaled.		
ATE US (oral)	474.947 mg/kg body weight		
ATE US (dust, mist)	3.75 mg/l/4h		
Benzenemethanol (100-51-6)			
LD50 oral rat	1620 mg/kg (Rat; Experimental value)		
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)		
LC50 inhalation rat (mg/l)	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))		
1-Piperazine ethanamine (140-31-8)			
LD50 oral rat	2097 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))		
LD50 dermal rabbit	866 mg/kg bw/day (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))		
(4,4'-diaminodicyclohexyl)methane (1761-7			
LD50 oral rat	380 mg/kg (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)		
LD50 dermal rabbit	2110 mg/kg body weight (EPA OPP 81-2, 24 h, Rabbit, Male / female, Experimental value, Dermal)		
Formaldehyde, polymer with benzenamine	, hydrogenated (135108-88-2)		
LD50 oral rat	367 mg/kg		
2,4,6-tris(dimethylaminomethyl)phenol (90	-72-2)		
LD50 oral rat	2169 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
Skin corrosion/irritation	Causes severe skin burns.		
	pH: Alkaline		
Serious eye damage/irritation	: Assumed to cause serious eye damage		
	pH: Alkaline		
Respiratory or skin sensitization	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	: May cause damage to organs (oral).		

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(4,4'-diaminodicyclohexyl)methane (1761-71-	
Specific target organ toxicity – single exposure	May cause damage to organs (oral).
Specific target organ toxicity – repeated xposure	: Not classified
Aspiration hazard	: Not classified
/iscosity, kinematic	: No data available
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
ECTION 12: Ecological information	
.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Benzenemethanol (100-51-6)	
LC50 fish 1	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 (algae)	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
1-Piperazine ethanamine (140-31-8)	
LC50 fish 1	2190 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)
ErC50 (algae)	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP)
(4,4'-diaminodicyclohexyl)methane (1761-71-	3)
LC50 fish 1	68 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	6.84 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	140 – 200 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
2,4,6-tris(dimethylaminomethyl)phenol (90-7	2-2)
LC50 fish 1	175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 (algae)	84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
.2. Persistence and degradability	
3100-В	
Persistence and degradability	Not established.
Benzenemethanol (100-51-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.6 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.5 g O ₂ /g substance
1-Piperazine ethanamine (140-31-8)	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.56 g O ₂ /g substance
(4,4'-diaminodicyclohexyl)methane (1761-71-	3)
Persistence and degradability	Not readily biodegradable in water.

Not readily biodegradable in water.

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12.3. Bioaccumulative potential

Benzenemethanol (100-51-6)		
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
1-Piperazine ethanamine (140-31-8)		
BCF fish 1	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across)	
Partition coefficient n-octanol/water (Log Pow)	-1.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)	
Bioaccumulative potential	Not bioaccumulative.	
(4,4'-diaminodicyclohexyl)methane (1761-71-3)		
BCF fish 1	< 60 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow- through system, Fresh water, Read-across, GLP)	
Partition coefficient n-octanol/water (Log Pow)	2.03 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
Partition coefficient n-octanol/water (Log Pow)	-0.66 (Experimental value, EPA OPPTS 830.7550: Partition Coefficient (n-octanol/water), Shake Flask Method, 21.5 °C)	
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

Benzenemethanol (100-51-6)	
Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.
1-Piperazine ethanamine (140-31-8)	
Partition coefficient n-octanol/water (Log Koc)	4.57 (log Koc, Read-across, GLP)
Ecology - soil	Low potential for mobility in soil.
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
Partition coefficient n-octanol/water (Log Koc)	3.25 (log Koc, Other, Calculated value)
Ecology - soil	Low potential for mobility in soil.
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Partition coefficient n-octanol/water (Log Koc)	1.32 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

ECTION 13: Disposal considerati	ions
3.1. Disposal methods	
Waste treatment methods	: Contain and dispose of waste according to local regulations.
ECTION 14: Transport information	on and a second se
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2735 Amines, liquid, corrosive, n.o.s. (Mixed Cycloalphatic amines, Heterocyclic amine), 8, III
UN-No.(DOT)	: UN2735
Proper Shipping Name (DOT)	: Amines, liquid, corrosive, n.o.s.
	Mixed Cycloalphatic amines, Heterocyclic amine
Class (DOT)	8 - Class 8 - Corrosive material 49 CFR 173.136
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Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN TO BE COMPLETED/CALCULATED
UN-No. (IMDG)	: TO BE COMPLETED/CALCULATED
Air transport	
Transport document description (IATA)	: UN 2735 Amines, liquid, corrosive, n.o.s., 8, III
UN-No. (IATA)	2735
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

3100-В		
Listed on the United States TSCA (Toxic Substances	Control Act) inventory	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
Benzenemethanol (100-51-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
1-Piperazine ethanamine (140-31-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
(4,4'-diaminodicyclohexyl)methane (1761-71-3)		
Listed on the United States TSCA (Toxic Substances	Control Act) inventory	

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Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
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

Component	State or local regulations
1-Piperazine ethanamine(140-31-8	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-phrases:

toxt of the princess.	
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H371	May cause damage to organs
H401	Toxic to aquatic life

Hazard Rating

nazaru Nating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT 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