

SAFETY DATA SHEET

Rub-R-Mold (latex)

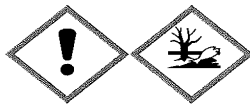
1. Identification

Product identifier 60CX13230
Other means of identification
Product code 60CX13230
Recommended use Not available.
Recommended restrictions Industrial use
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Company name
Address
Telephone
Website
E-mail
Emergency phone number INFOTRAC (800) 535-5053

YALEY ENTERPRISES, INC.
 7664 Avianca Drive
 Redding, CA 96002

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2A
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
 Hazardous to the aquatic environment, long-term hazard Category 2
OSHA defined hazards Not classified.

Label elements

Signal word Warning
Hazard statement Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement
Prevention Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.
Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage Store away from incompatible materials.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information 4.36% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 4.36% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Kaolin Clay		1332-58-7	3 - < 5
Ammonium Hydroxide		1336-21-6	1 - < 3
Distillates (petroleum), Hydrotrated heavy naphthenic		64742-52-5	< 0.2
Potassium Hydroxide		1310-58-3	< 0.2
2-mercaptobenzothiazole		149-30-4	< 0.1
4' 4 Diphelmethane Diisocynate		101-68-8	< 0.1
Diethanolamine		111-42-2	< 0.1
Diethylene Glycol Ethyl Ether		111-90-0	< 0.1
Diphenylamine		122-39-4	< 0.1
Ethanol		64-17-5	< 0.1
Ethyl Acetate		141-78-6	< 0.1
Fomaldehyde		50-00-0	< 0.1
Methanol		67-56-1	< 0.1
Methyl Isbutyl Ketone		108-10-1	< 0.1
Naphthlene		91-20-3	< 0.1
Silica, quartz		14808-60-7	< 0.1
Sodium Hydroxide		1310-73-2	< 0.1
Tetrasodium Pyrophosphate		7722-88-5	< 0.1
Triethanolamine		102-71-6	< 0.1
Zinc Dimethyldithiocarbamate		137-30-4	< 0.1
Zinc Oxide		1314-13-2	< 0.1
Other components below reportable levels			90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
4' 4 Diphelmethane Diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m ³	
Ammonium Hydroxide (CAS 1336-21-6)	PEL	0.02 ppm	
		35 mg/m ³	
Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)	PEL	50 ppm	Mist.
		5 mg/m ³	
Ethanol (CAS 64-17-5)	PEL	2000 mg/m ³	
		500 ppm	
		1900 mg/m ³	
Ethyl Acetate (CAS 141-78-6)	PEL	1000 ppm	
		1400 mg/m ³	
Kaolin Clay (CAS 1332-58-7)	PEL	400 ppm	Respirable fraction.
		5 mg/m ³	
Methanol (CAS 67-56-1)	PEL	15 mg/m ³	Total dust.
		260 mg/m ³	

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Methyl Isbutyl Ketone (CAS 108-10-1)	PEL	200 ppm 410 mg/m ³	
Naphthlene (CAS 91-20-3)	PEL	100 ppm 50 mg/m ³	
Sodium Hydroxide (CAS 1310-73-2)	PEL	10 ppm 2 mg/m ³	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m ³	Respirable fraction.
		5 mg/m ³ 15 mg/m ³	Fume. Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Silica, quartz (CAS 14808-60-7)	TWA	0.3 mg/m ³	Total dust.
		0.1 mg/m ³ 2.4 mppcf	Respirable. Respirable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
4' 4 Diphelmethane Diisocynate (CAS 101-68-8)	TWA	0.005 ppm	
Ammonium Hydroxide (CAS 1336-21-6)	STEL	35 ppm	
Diethanolamine (CAS 111-42-2)	TWA	25 ppm	
Diphenylamine (CAS 122-39-4)	TWA	1 mg/m ³	Inhalable fraction and vapor.
Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)	TWA	10 mg/m ³	
Ethanol (CAS 64-17-5)	TWA	5 mg/m ³	Inhalable fraction.
Ethyl Acetate (CAS 141-78-6)	STEL	1000 ppm	
Fomaldehyde (CAS 50-00-0)	TWA	400 ppm	
Kaolin Clay (CAS 1332-58-7)	Ceiling	0.3 ppm	
Methanol (CAS 67-56-1)	TWA	2 mg/m ³	Respirable fraction.
	STEL	250 ppm	
Methyl Isbutyl Ketone (CAS 108-10-1)	TWA	200 ppm	
	STEL	75 ppm	
Naphthlene (CAS 91-20-3)	TWA	20 ppm	
Potassium Hydroxide (CAS 1310-58-3)	TWA	10 ppm	
Silica, quartz (CAS 14808-60-7)	Ceiling	2 mg/m ³	
Sodium Hydroxide (CAS 1310-73-2)	TWA	0.025 mg/m ³	Respirable fraction.
Triethanolamine (CAS 102-71-6)	TWA	2 mg/m ³	
Zinc Oxide (CAS 1314-13-2)	Ceiling	2 mg/m ³	
	TWA	5 mg/m ³	
	STEL	10 mg/m ³	Respirable fraction.
	TWA	2 mg/m ³	Respirable fraction.

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**US. NIOSH: Pocket Guide to Chemical Hazards
Components**

Components	Type	Value	Form
4' 4 Diphelmethane Diisocynate (CAS 101-68-8)	Ceiling	0.2 mg/m3	
	TWA	0.02 ppm 0.05 mg/m3	
		0.005 ppm	
Ammonium Hydroxide (CAS 1336-21-6)	STEL	27 mg/m3	
	TWA	35 ppm 18 mg/m3	
		25 ppm	
Diethanolamine (CAS 111-42-2)	TWA	15 mg/m3	
Diphenylamine (CAS 122-39-4)	TWA	3 ppm 10 mg/m3	
Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Ethyl Acetate (CAS 141-78-6)	TWA	1400 mg/m3	
		400 ppm	
Fomaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
Kaolin Clay (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
	TWA	250 ppm 260 mg/m3	
		200 ppm	
Methyl Isbutyl Ketone (CAS 108-10-1)	STEL	300 mg/m3	
	TWA	75 ppm 205 mg/m3	
		50 ppm	
Naphthlene (CAS 91-20-3)	STEL	75 mg/m3	
	TWA	15 ppm 50 mg/m3	
		10 ppm	
Potassium Hydroxide (CAS 1310-58-3)	TWA	2 mg/m3	
Silica, quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Tetrasodium Pyrophosphate (CAS 7722-88-5)	TWA	5 mg/m3	
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume. Dust.

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US. Workplace Environmental Exposure Level (WEEL) Guides Components

Components	Type	Value
2-mercaptobenzothiazole (CAS 149-30-4)	TWA	5 mg/m ³
Diethylene Glycol Ethyl Ether (CAS 111-90-0)	TWA	140 mg/m ³ 25 ppm

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
Methyl Isobutyl Ketone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines**US - California OELs: Skin designation**

Diethanolamine (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthlene (CAS 91-20-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1)	Skin designation applies.
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US - Tennessee OELs: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthlene (CAS 91-20-3)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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US WEEL Guides: Skin designation

2-mercaptobenzothiazole (CAS 149-30-4)	Can be absorbed through the skin.
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Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Physical state	Liquid.
Form	Liquid.
Color	White
Odor	Ammoniacal.
Odor threshold	Not available.
pH	Not available.

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Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.00 lbs/gal estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	0.004 % estimated
Specific gravity	0.96 estimated
VOC (Weight %)	0.004 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

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Components	Species	Test Results
2-mercaptobenzothiazole (CAS 149-30-4)		
Acute		
Oral		
LD50	Mouse	1490 mg/kg
4' 4 Diphelmethane Diisocynate (CAS 101-68-8)		
Acute		
Inhalation		
LC50	Rat	0.369 mg/l, 4 Hours
Ammonium Hydroxide (CAS 1336-21-6)		
Acute		
Oral		
LD50	Rat	350 mg/kg
Diethanolamine (CAS 111-42-2)		
Acute		
Dermal		
LD50	Rabbit	11.9 ml/kg
Oral		
LD50	Rat	710 mg/kg
Diethylene Glycol Ethyl Ether (CAS 111-90-0)		
Acute		
Dermal		
LD50	Guinea pig	5900 mg/kg
	Mouse	6000 mg/kg
	Rabbit	8476 mg/kg
	Rat	6000 mg/kg
Oral		
LD50	Guinea pig	3000 mg/kg
	Mouse	6.58 g/kg
	Rabbit	3620 mg/kg
	Rat	1920 mg/kg
Diphenylamine (CAS 122-39-4)		
Acute		
Oral		
LD50	Guinea pig	300 mg/kg
	Mouse	1750 mg/kg
	Rat	2 g/kg
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
Oral		
LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg

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Components	Species	Test Results
Ethyl Acetate (CAS 141-78-6)		
Acute		
Inhalation		
LC50	Rat	16000 ppm, 6 Hours
LD50	Mouse	1500 ppm, 4 Hours
	Rabbit	2500 ppm, 4 Hours
	Rat	4000 ppm, 4 Hours
Oral		
LD50	Mouse	0.44 g/kg
	Rabbit	4.9 g/kg
	Rat	11.3 ml/kg
		5.6 g/kg
Formaldehyde (CAS 50-00-0)		
Acute		
Inhalation		
LC50	Mouse	0.414 mg/l, 4 Hours
		0.4 mg/l, 2 Hours
	Rat	0.82 mg/l, 0.5 Hours
		0.48 mg/l, 4 Hours
Oral		
LD50	Guinea pig	260 mg/kg
	Mouse	42 mg/kg
	Rat	100 mg/kg
Kaolin Clay (CAS 1332-58-7)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Methanol (CAS 67-56-1)		
Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Cat	85.41 mg/l, 4.5 Hours
		43.68 mg/l, 6 Hours
	Rat	64000 ppm, 4 Hours
		87.5 mg/l, 6 Hours
Oral		
LD50	Dog	8000 mg/kg
	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Methyl Isbutyl Ketone (CAS 108-10-1)		
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg

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Components	Species	Test Results
Inhalation		
LC50	Rat	8.2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
Naphthlene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
	Rat	> 20 g/kg
Oral		
LD50	Guinea pig	1200 mg/kg
	Rat	490 mg/kg
Potassium Hydroxide (CAS 1310-58-3)		
Acute		
Oral		
LD50	Rat	273 mg/kg
Triethanolamine (CAS 102-71-6)		
Acute		
Dermal		
LD50	Rabbit	> 20000 mg/kg
Oral		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
Zinc Dimethyldithiocarbamate (CAS 137-30-4)		
Acute		
Inhalation		
LC50	Rat	0.081 mg/l, 4 Hours
Oral		
LD50	Guinea pig	100 mg/kg
	Rabbit	100 mg/kg
	Rat	320 mg/kg
Zinc Oxide (CAS 1314-13-2)		
Acute		
Inhalation		
LC50	Mouse	> 5.7 mg/l, 4 Hours
Oral		
LD50	Mouse	7950 mg/kg
	Rat	> 5 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

ACGIH sensitization

Fomaldehyde (CAS 50-00-0)

Sensitizer.

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)	3 Not classifiable as to carcinogenicity to humans.
Diethanolamine (CAS 111-42-2)	2B Possibly carcinogenic to humans.
Fomaldehyde (CAS 50-00-0)	1 Carcinogenic to humans.
Methyl Isbutyl Ketone (CAS 108-10-1)	2B Possibly carcinogenic to humans.
Naphthlene (CAS 91-20-3)	2B Possibly carcinogenic to humans.
Silica, quartz (CAS 14808-60-7)	1 Carcinogenic to humans.
Triethanolamine (CAS 102-71-6)	3 Not classifiable as to carcinogenicity to humans.
Zinc Dimethyldithiocarbamate (CAS 137-30-4)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Fomaldehyde (CAS 50-00-0) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)	Known To Be Human Carcinogen.
Fomaldehyde (CAS 50-00-0)	Known To Be Human Carcinogen.
Naphthlene (CAS 91-20-3)	Reasonably Anticipated to be a Human Carcinogen.
Silica, quartz (CAS 14808-60-7)	Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
2-mercaptobenzothiazole (CAS 149-30-4)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 0.42 mg/l, 96 hours
Ammonium Hydroxide (CAS 1336-21-6)		
Aquatic		
Fish	LC50	Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours
Diethanolamine (CAS 111-42-2)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 61.8 - 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours
Diethylene Glycol Ethyl Ether (CAS 111-90-0)		
Aquatic		
Fish	LC50	Bluegill (Lepomis macrochirus) > 10000 mg/l, 96 hours
Diphenylamine (CAS 122-39-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 0.27 - 0.36 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 3.471 - 4.141 mg/l, 96 hours
Ethanol (CAS 64-17-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Ethyl Acetate (CAS 141-78-6)		
Aquatic		
Fish	LC50	Indian catfish (Heteropneustes fossilis) 200.32 - 225.42 mg/l, 96 hours

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Components	Species	Test Results
Fomaldehyde (CAS 50-00-0)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>) 4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Striped bass (<i>Morone saxatilis</i>) 10.302 - 16.743 mg/l, 96 hours
Methanol (CAS 67-56-1)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 100 mg/l, 96 hours
Methyl Isbutyl Ketone (CAS 108-10-1)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 492 - 593 mg/l, 96 hours
Naphthlene (CAS 91-20-3)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (<i>Oncorhynchus gorbuscha</i>) 1.11 - 1.68 mg/l, 96 hours
Potassium Hydroxide (CAS 1310-58-3)		
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) 80 mg/l, 96 hours
Sodium Hydroxide (CAS 1310-73-2)		
Aquatic		
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>) 34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) 125 mg/l, 96 hours
Tetrasodium Pyrophosphate (CAS 7722-88-5)		
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) 1380 mg/l, 96 hours
Triethanolamine (CAS 102-71-6)		
Aquatic		
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>) 565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 10610 - 13010 mg/l, 96 hours
Zinc Dimethyldithiocarbamate (CAS 137-30-4)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 0.008 mg/l, 96 hours
Zinc Oxide (CAS 1314-13-2)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 2246 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-mercaptobenzothiazole	2.41
Diethanolamine	-1.43
Diethylene Glycol Ethyl Ether	-0.54
Ethanol	-0.31
Ethyl Acetate	0.73
Fomaldehyde	0.35
Methanol	-0.77
Methyl Isbutyl Ketone	1.31
Naphthlene	3.3
Triethanolamine	-1
Zinc Dimethyldithiocarbamate	1.23

Mobility in soil No data available.

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Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste P List: Reference

Zinc Dimethyldithiocarbamate (CAS 137-30-4)	P205
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Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)	Methylene Diphenyl Diisocyanate (MDI) And Related Compounds Action Plan [RIN 2070-ZA15]
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CERCLA Hazardous Substance List (40 CFR 302.4)

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)	Listed.
Ammonium Hydroxide (CAS 1336-21-6)	Listed.
Diethanolamine (CAS 111-42-2)	Listed.
Diethylene Glycol Ethyl Ether (CAS 111-90-0)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Ethyl Acetate (CAS 141-78-6)	Listed.
Fomaldehyde (CAS 50-00-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methyl Isbutyl Ketone (CAS 108-10-1)	Listed.
Naphthlene (CAS 91-20-3)	Listed.
Potassium Hydroxide (CAS 1310-58-3)	Listed.
Sodium Hydroxide (CAS 1310-73-2)	Listed.
Zinc Dimethyldithiocarbamate (CAS 137-30-4)	Listed.
Zinc Oxide (CAS 1314-13-2)	Listed.

SARA 304 Emergency release notification

Fomaldehyde (CAS 50-00-0)	100 LBS
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Fomaldehyde (CAS 50-00-0)	Cancer
	Skin sensitization
	Respiratory sensitization
	Eye irritation

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Skin irritation
respiratory tract irritation
Acute toxicity
Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
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Fomaldehyde	50-00-0	100	500 lbs		
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SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Ammonium Hydroxide	1336-21-6	1 - < 3
Fomaldehyde	50-00-0	< 0.1
Naphthlene	91-20-3	< 0.1

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)
Diethanolamine (CAS 111-42-2)
Diethylene Glycol Ethyl Ether (CAS 111-90-0)
Fomaldehyde (CAS 50-00-0)
Methanol (CAS 67-56-1)
Methyl Isbutyl Ketone (CAS 108-10-1)
Naphthlene (CAS 91-20-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Fomaldehyde (CAS 50-00-0)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Methyl Isbutyl Ketone (CAS 108-10-1) 6715

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Methyl Isbutyl Ketone (CAS 108-10-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Methyl Isbutyl Ketone (CAS 108-10-1) 6715

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5) Low priority
Ethyl Acetate (CAS 141-78-6) Low priority
Methyl Isbutyl Ketone (CAS 108-10-1) Low priority

US state regulations**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)
Diethanolamine (CAS 111-42-2)
Diethylene Glycol Ethyl Ether (CAS 111-90-0)
Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)
Fomaldehyde (CAS 50-00-0)
Methanol (CAS 67-56-1)
Methyl Isbutyl Ketone (CAS 108-10-1)
Naphthlene (CAS 91-20-3)
Silica, quartz (CAS 14808-60-7)

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Sodium Hydroxide (CAS 1310-73-2)

US. Massachusetts RTK - Substance List

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)
Ammonium Hydroxide (CAS 1336-21-6)
Diethanolamine (CAS 111-42-2)
Diphenylamine (CAS 122-39-4)
Distillates (petroleum), Hydrotrated heavy naphthenic (CAS 64742-52-5)
Ethanol (CAS 64-17-5)
Ethyl Acetate (CAS 141-78-6)
Fomaldehyde (CAS 50-00-0)
Kaolin Clay (CAS 1332-58-7)
Methanol (CAS 67-56-1)
Methyl Isbutyl Ketone (CAS 108-10-1)
Naphthlene (CAS 91-20-3)
Potassium Hydroxide (CAS 1310-58-3)
Silica, quartz (CAS 14808-60-7)
Sodium Hydroxide (CAS 1310-73-2)
Tetrasodium Pyrophosphate (CAS 7722-88-5)
Triethanolamine (CAS 102-71-6)
Zinc Dimethyldithiocarbamate (CAS 137-30-4)
Zinc Oxide (CAS 1314-13-2)

US. New Jersey Worker and Community Right-to-Know Act

2-mercaptobenzothiazole (CAS 149-30-4)
4' 4 Diphelmethane Diisocynate (CAS 101-68-8)
Ammonium Hydroxide (CAS 1336-21-6)
Diethanolamine (CAS 111-42-2)
Diethylene Glycol Ethyl Ether (CAS 111-90-0)
Diphenylamine (CAS 122-39-4)
Ethanol (CAS 64-17-5)
Ethyl Acetate (CAS 141-78-6)
Fomaldehyde (CAS 50-00-0)
Kaolin Clay (CAS 1332-58-7)
Methanol (CAS 67-56-1)
Methyl Isbutyl Ketone (CAS 108-10-1)
Naphthlene (CAS 91-20-3)
Potassium Hydroxide (CAS 1310-58-3)
Silica, quartz (CAS 14808-60-7)
Sodium Hydroxide (CAS 1310-73-2)
Tetrasodium Pyrophosphate (CAS 7722-88-5)
Triethanolamine (CAS 102-71-6)
Zinc Dimethyldithiocarbamate (CAS 137-30-4)
Zinc Oxide (CAS 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law

4' 4 Diphelmethane Diisocynate (CAS 101-68-8)
Ammonium Hydroxide (CAS 1336-21-6)
Diethanolamine (CAS 111-42-2)
Diethylene Glycol Ethyl Ether (CAS 111-90-0)
Diphenylamine (CAS 122-39-4)
Ethanol (CAS 64-17-5)
Ethyl Acetate (CAS 141-78-6)
Fomaldehyde (CAS 50-00-0)
Kaolin Clay (CAS 1332-58-7)
Methanol (CAS 67-56-1)
Methyl Isbutyl Ketone (CAS 108-10-1)
Naphthlene (CAS 91-20-3)
Potassium Hydroxide (CAS 1310-58-3)
Silica, quartz (CAS 14808-60-7)
Sodium Hydroxide (CAS 1310-73-2)
Tetrasodium Pyrophosphate (CAS 7722-88-5)
Triethanolamine (CAS 102-71-6)
Zinc Oxide (CAS 1314-13-2)

US. Rhode Island RTK

2-mercaptobenzothiazole (CAS 149-30-4)
4' 4 Diphelmethane Diisocynate (CAS 101-68-8)

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Ammonium Hydroxide (CAS 1336-21-6)
 Diethanolamine (CAS 111-42-2)
 Diethylene Glycol Ethyl Ether (CAS 111-90-0)
 Diphenylamine (CAS 122-39-4)
 Ethyl Acetate (CAS 141-78-6)
 Fomaldehyde (CAS 50-00-0)
 Methanol (CAS 67-56-1)
 Methyl Isbutyl Ketone (CAS 108-10-1)
 Naphthlene (CAS 91-20-3)
 Potassium Hydroxide (CAS 1310-58-3)
 Sodium Hydroxide (CAS 1310-73-2)
 Zinc Dimethyldithiocarbamate (CAS 137-30-4)
 Zinc Oxide (CAS 1314-13-2)

US. California Proposition 65

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2)	Listed: June 22, 2012
Ethanol (CAS 64-17-5)	Listed: April 29, 2011
	Listed: July 1, 1988
Fomaldehyde (CAS 50-00-0)	Listed: January 1, 1988
Methyl Isbutyl Ketone (CAS 108-10-1)	Listed: November 4, 2011
Naphthlene (CAS 91-20-3)	Listed: April 19, 2002
Silica, quartz (CAS 14808-60-7)	Listed: October 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethanol (CAS 64-17-5)	Listed: October 1, 1987
Methanol (CAS 67-56-1)	Listed: March 16, 2012
Methyl Isbutyl Ketone (CAS 108-10-1)	Listed: March 28, 2014

International Inventories

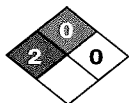
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 12-18-2015
Version # 01
HMIS® ratings Health: 2
 Flammability: 0
 Physical hazard: 0

NFPA ratings

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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.