



Safety Data Sheet

Issue Date 09-Mar-2021

Revision Date 25-Apr-2019

Revision Number 2

1. IDENTIFICATION

Product identifier

Product Code 1418-0900A
Product Name LAVALOCK CLEAR

Other means of identification

Common Name SERIES 1418, PART A
UN/ID no. UN1263
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.
Uses advised against Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address

Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO
64120-1372 816-474-3400

Distributor

Tnemec Company, Inc. 86 Boul, des Entreprises, Ste. 203,
Boisbriand, Quebec Canada J7G 2T3

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Flammable Liquids	Category 3

Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure
Flammable liquid and vapor

**Appearance** clear**Physical state** liquid**Odor** Strong aromatic**Precautionary Statements****Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Use explosion-proof electrical/ventilating/lighting/mixing/equipment

Response

IF exposed or concerned: Get medical advice/attention
 IF IN EYES: 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
 If skin irritation occurs: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store locked up
 Store in a well-ventilated place. Keep cool
 Keep away from children

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

Other information

SEE SAFETY DATA SHEET

Very toxic to aquatic life with long lasting effects

Acute Toxicity 55 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
NONHAZARDOUS RESIN	M386	60 - 100%

STYRENE	100-42-5	30 - <60%
METHACRYLIC ACID	79-41-4	1 - <10%
HYDROPHOBIC FUMED SILICA	67762-90-7	0.1 - <1%
TETRAMETHYLAMMONIUM CHLORIDE	75-57-0	0.1 - <1%
2,4-PENTANEDIONE	123-54-6	0.1 - <1%
COBALT CARBOXYLATE	136-52-7	0.1 - <1%
ETHYLENE GLYCOL	107-21-1	0 - <0.1%
BENZENE	71-43-2	0 - <0.1%
MINERAL SPIRITS	8052-41-3	0 - <0.1%
NAPHTHENIC ACIDS, COPPER SALTS	1338-02-9	0 - <0.1%
N,N-DIMETHYLANILINE	121-69-7	0 - <0.1%
METHACRYLOXYPROPYL TRIMETHOXYSILANE	25320-85-0	0 - <0.1%
MINERAL SPIRITS	64742-47-8	0 - <0.1%
MINERAL SPIRITS (STODDARD SOLVENT)	8052-41-3	0 - <0.1%
NONHAZARDOUS RESIN	C736	0 - <0.1%
NONANE	111-84-2	0 - <0.1%
NAPHTHENIC ACIDS	1338-24-5	0 - <0.1%
NAPHTHALENE	91-20-3	0 - <0.1%
ETHYLBENZENE	100-41-4	0 - <0.1%
SILOXANES AND SILICONES	67762-90-7	0 - <0.1%
METHANOL	67-56-1	0 - <0.1%
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	0 - <0.1%
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	0 - <0.1%

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Inhalation	Remove to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects	May cause redness and tearing of the eyes. Coughing and / or wheezing. May cause skin and eye irritation. May cause drowsiness or dizziness.
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Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide. Foam. Water spray. Cover with dry sand/earth.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Flammable liquid Thermal decomposition can lead to release of irritating gases and vapours

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon dioxide.

Impact sensitivity

No.

Sensitivity to Static Discharge

May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Burning produces obnoxious and toxic fumes. Avoid run off to waterways and sewers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental Precautions**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up**Methods for containment**

Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

Methods for cleaning up

Pick up and transfer to properly labelled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Precautions for safe handling**Handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Use with local exhaust ventilation. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities**Storage**

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed in a dry and well-ventilated place.

Incompatible products

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
STYRENE 100-42-5	TWA: 10 ppm STEL: 20 ppm	TWA: 100 ppm Ceiling: 200 ppm	700 ppm
METHACRYLIC ACID 79-41-4	TWA: 20 ppm	-	
2,4-PENTANEDIONE 123-54-6	TWA: 25 ppm Skin	-	
ETHYLENE GLYCOL 107-21-1	TWA: 25 ppm vapor fraction STEL: 50 ppm STEL: 10 mg/m ³	-	
BENZENE 71-43-2	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028 TWA: 1 ppm Ceiling: 25 ppm STEL: 5 ppm	500 ppm
MINERAL SPIRITS 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³	20000 mg/m ³
NAPHTHENIC ACIDS, COPPER SALTS 1338-02-9	TWA: 1 mg/m ³ dust and mist	-	100 mg/m ³ dust and mist
N,N-DIMETHYLANILINE 121-69-7	TWA: 5 ppm Skin STEL: 10 ppm	TWA: 5 ppm TWA: 25 mg/m ³ Skin	100 ppm
MINERAL SPIRITS (STODDARD SOLVENT) 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³	20000 mg/m ³
NONANE 111-84-2	TWA: 200 ppm	-	
NAPHTHALENE 91-20-3	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 50 mg/m ³	250 ppm
ETHYLBENZENE 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	800 ppm
METHANOL 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m ³	6000 ppm

Legend

NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering measures

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH's Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product. Provide readily accessible eye wash stations and safety showers.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety goggles

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.
Avoid breathing dust created by cutting, sanding, or grinding. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Strong aromatic
Appearance	clear	Odor threshold	<1 ppm
Color	clear amber		
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	
pH		No data available	
Melting point / freezing point	No data available		
Boiling point / boiling range	> 145 °C / 293 °F	No information available	
Flash point	27 °C / 80 °F	Pensky Martens - Closed Cup	
Evaporation rate	< 1		
Flammability (solid, gas)	No data available		
Flammability Limit in Air			
Upper flammability limit	1.1%		
Lower flammability limit	6.6%		
Vapor pressure	0.57 kPa	@ 20°C	
Vapor density	>1	No data available	
Specific gravity	1.02-1.06	g/cm3	
Water solubility	Insoluble in cold water		
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/water		No data available	
Autoignition temperature	No data available		
Decomposition temperature	No information available	No data available	
Kinematic viscosity	>200 mm2/s	@ 40°C	
Dynamic viscosity		No data available	

Other Information

Molecular weight	No information available
Density	8.66 lbs/gal
Volatile organic compounds (VOC) content	3.39 lbs/gal % (nominal)
Total volatiles volume percent	15.00 % (nominal)
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization may occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Incompatible with strong acids and bases, Incompatible with oxidizing agents

Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon dioxide. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. May cause irritation of respiratory tract. Harmful if inhaled.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Harmful if swallowed.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
STYRENE 100-42-5	= 1000 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 11.7 mg/L (Rat) 4 h
METHACRYLIC ACID 79-41-4	= 1060 mg/kg (Rat)	500 - 1000 mg/kg (Rabbit) = 500 mg/kg (Rabbit)	= 7.1 mg/L (Rat) 4 h
TETRAMETHYLAMMONIUM CHLORIDE 75-57-0	= 50 mg/kg (Rat)	-	-
2,4-PENTANEDIONE 123-54-6	= 55 mg/kg (Rat) = 570 mg/kg (Rat) = 760 mg/kg (Rat)	= 1370 mg/kg (Rabbit) = 790 mg/kg (Rabbit) = 810 µL/kg (Rabbit)	= 1224 ppm (Rat) 4 h
COBALT CARBOXYLATE 136-52-7	-	> 5000 mg/kg (Rabbit)	> 10 mg/L (Rat) 1 h
ETHYLENE GLYCOL 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-
BENZENE 71-43-2	= 1800 mg/kg (Rat) = 810 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 h
NAPHTHENIC ACIDS, COPPER SALTS 1338-02-9	= 2 g/kg (Rat)	> 2000 mg/kg (Rabbit)	-
N,N-DIMETHYLANILINE 121-69-7	= 951 mg/kg (Rat)	= 1770 mg/kg (Rabbit)	> 0.5 - 5.0 mg/L (Rat) 4 h
MINERAL SPIRITS 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
NONANE 111-84-2	-	-	= 3200 ppm (Rat) 4 h
NAPHTHENIC ACIDS 1338-24-5	= 3 g/kg (Rat) = 3000 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
NAPHTHALENE 91-20-3	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
ETHYLBENZENE 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
METHANOL 67-56-1	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit) = 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h
OCTAMETHYLCYCLOTETRASILOXANE 556-67-2	= 1540 mg/kg (Rat)	= 794 µL/kg (Rabbit) > 2375 mg/kg (Rat)	= 36 g/m ³ (Rat) 4 h
DECAMETHYLCYCLOPENTASULOXANE 541-02-6	> 24134 mg/kg (Rat)	> 16 mL/kg (Rabbit)	-

Information on toxicological effects

Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes and skin.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Avoid repeated exposure. May cause adverse liver effects. Contains a known or suspected carcinogen.

Sensitization

No information available.

Mutagenicity

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
STYRENE 100-42-5	A3	Group 2A	Reasonably Anticipated	X
COBALT CARBOXYLATE 136-52-7		Group 2B	Reasonably Anticipated	
BENZENE 71-43-2	A1	Group 1	Known	X
NAPHTHENIC ACIDS, COPPER SALTS 1338-02-9		Group 2A	-	
N,N-DIMETHYLANILINE 121-69-7		Group 3	-	
NAPTHALENE 91-20-3	A3	Group 2B	Reasonably Anticipated	X
ETHYLBENZENE 100-41-4	A3	Group 2B	-	X

Legend:

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive effects

No information available.

STOT - single exposure

Respiratory system, Central Nervous System (CNS)

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure

Target organ effects

respiratory system, Central nervous system, liver, Eyes, Lungs, Reproductive System, Skin, kidney.

Aspiration hazard

No information available.

Acute Toxicity

55 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

65.0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia
STYRENE 100-42-5	0.15 - 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.72: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.4: 72 h Pseudokirchneriella subcapitata mg/L EC50	19.03 - 33.53: 96 h Lepomis macrochirus mg/L LC50 static 3.24 - 4.99: 96 h Pimephales promelas mg/L LC50 flow-through 58.75 - 95.32: 96 h Poecilia reticulata mg/L LC50 static 6.75 - 14.5: 96 h Pimephales promelas mg/L LC50 static	3.3 - 7.4: 48 h Daphnia magna mg/L EC50
METHACRYLIC ACID 79-41-4	-	85: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-
TETRAMETHYLAMMONIUM CHLORIDE 75-57-0	-	431 - 495: 96 h Pimephales promelas mg/L LC50 flow-through	-
2,4-PENTANEDIONE 123-54-6	-	50.3 - 71.8: 96 h Lepomis macrochirus mg/L LC50 flow-through 64.1 - 80.1: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 98.3 - 110: 96 h Pimephales promelas mg/L LC50	34.4: 48 h Daphnia magna mg/L EC50

		flow-through	
ETHYLENE GLYCOL 107-21-1	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50	46300: 48 h Daphnia magna mg/L EC50
BENZENE 71-43-2	29: 72 h Pseudokirchneriella subcapitata mg/L EC50	10.7 - 14.7: 96 h Pimephales promelas mg/L LC50 flow-through 22330 - 41160: 96 h Pimephales promelas µg/L LC50 static 70000 - 142000: 96 h Lepomis macrochirus µg/L LC50 static 22.49: 96 h Lepomis macrochirus mg/L LC50 static 28.6: 96 h Poecilia reticulata mg/L LC50 static 5.3: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	8.76 - 15.6: 48 h Daphnia magna mg/L EC50 Static 10: 48 h Daphnia magna mg/L EC50
N,N-DIMETHYLANILINE 121-69-7	340: 96 h Desmodesmus subspicatus mg/L EC50	0.183 - 0.186: 96 h Brachydanio rerio mg/L LC50 51.1: 96 h Brachydanio rerio mg/L LC50 semi-static 52.6: 96 h Pimephales promelas mg/L LC50 flow-through 53.7: 96 h Poecilia reticulata mg/L LC50 semi-static 65.6: 96 h Pimephales promelas mg/L LC50	5: 48 h Daphnia magna mg/L EC50
MINERAL SPIRITS 64742-47-8	-	2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through	4720: 96 h Den-dronereides heteropoda mg/L LC50
NAPHTHENIC ACIDS 1338-24-5	-	5.6: 96 h Lepomis macrochirus mg/L LC50 static	-
NAPHTHALENE 91-20-3	0.4: 72 h Skeletonema costatum mg/L EC50	0.91 - 2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 5.74 - 6.44: 96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.99: 96 h Pimephales promelas mg/L LC50 static 31.0265: 96 h Lepomis macrochirus mg/L LC50 static	1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static 1.96: 48 h Daphnia magna mg/L EC50 Flow through 2.16: 48 h Daphnia magna mg/L LC50
ETHYLBENZENE 100-41-4	1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 9.6: 96 h Poecilia reticulata mg/L LC50 static	1.8 - 2.4: 48 h Daphnia magna mg/L EC50
METHANOL 67-56-1	-	13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	-
OCTAMETHYLCYCLOTETRAILO XANE 556-67-2	-	1000: 96 h Lepomis macrochirus mg/L LC50 500: 96 h Brachydanio rerio mg/L LC50	25.2: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

Chemical name	log Pow
STYRENE 100-42-5	2.95
METHACRYLIC ACID 79-41-4	0.93
2,4-PENTANEDIONE 123-54-6	0.34
ETHYLENE GLYCOL 107-21-1	-1.93
BENZENE 71-43-2	2.1
N,N-DIMETHYLANILINE 121-69-7	2.278
NAPTHALENE 91-20-3	3.3
ETHYLBENZENE 100-41-4	3.2
METHANOL 67-56-1	-0.77
OCTAMETHYLCYCLOTETRAILOXANE 556-67-2	5.1

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal Methods**

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

US EPA Waste Number

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
BENZENE 71-43-2	U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172	0.5 mg/L regulatory level	U019
ETHYLBENZENE 100-41-4		Included in waste stream: F039		
NAPTHALENE 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145		U165
METHANOL 67-56-1		Included in waste stream: F039		U154

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
NAPTHALENE 91-20-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and	

			spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	
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California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical name	CAWAST
STYRENE 100-42-5	Toxic Ignitable
COBALT CARBOXYLATE 136-52-7	Toxic
BENZENE 71-43-2	Toxic Ignitable
NAPHTHENIC ACIDS, COPPER SALTS 1338-02-9	Toxic
NAPHTHALENE 91-20-3	Toxic
ETHYLBENZENE 100-41-4	Toxic Ignitable
METHANOL 67-56-1	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no. UN1263
 Proper Shipping Name PAINT
 Hazard Class 3
 Packing Group III
 Emergency Response Guide Number 128

IATA

UN/ID no. UN1263
 Proper Shipping Name PAINT, (STYRENE MONOMER)
 Hazard Class 3
 Packing Group III
 ERG Code 128

IMDG/IMO

UN/ID no. UN1263
 Proper Shipping Name PAINT, (STYRENE MONOMER)
 Hazard Class 3
 Packing Group III
 EmS No. F-E,S-E
 Marine Pollutant Yes

Additional Information

Call TNESEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL/NDSL	Complies
EINECS/ELINCS	Does Not Comply
ENCS	Does Not Comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Chemical name **HAPS Data**

STYRENE
COBALT CARBOXYLATE
ETHYLENE GLYCOL
BENZENE
N,N-DIMETHYLANILINE
NAPHTHALENE
ETHYLBENZENE
METHANOL

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
STYRENE - 100-42-5	0.1
COBALT CARBOXYLATE - 136-52-7	1.0
ETHYLENE GLYCOL - 107-21-1	1.0
BENZENE - 71-43-2	0.1
NAPHTHENIC ACIDS, COPPER SALTS - 1338-02-9	1.0
N,N-DIMETHYLANILINE - 121-69-7	1.0
NAPHTHALENE - 91-20-3	0.1
ETHYLBENZENE - 100-41-4	0.1
METHANOL - 67-56-1	1.0

SARA 311/312 Hazardous

Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

The following chemicals are listed under the Clean Water Act:

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
STYRENE 100-42-5	1000 lb			X
BENZENE 71-43-2	10 lb	X	X	X
NAPHTHENIC ACIDS, COPPER SALTS 1338-02-9		X		
NAPHTHENIC ACIDS	100 lb			X

1338-24-5				
NAPTHALENE 91-20-3	100 lb	X	X	X
ETHYLBENZENE 100-41-4	1000 lb	X	X	X

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs	RQ
STYRENE 100-42-5	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
ETHYLENE GLYCOL 107-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
BENZENE 71-43-2	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
N,N-DIMETHYLANILINE 121-69-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
NAPHTHENIC ACIDS 1338-24-5	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
NAPTHALENE 91-20-3	100 lb 1 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
ETHYLBENZENE 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
METHANOL 67-56-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

Chemical name	TSCA 5(a)2
2,4-PENTANEDIONE	40 CFR 721.1535 proposed rule

California Prop. 65

WARNING: This product can expose you to the following chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical name	California Prop. 65
STYRENE - 100-42-5	Carcinogen
ETHYLENE GLYCOL - 107-21-1	Developmental
BENZENE - 71-43-2	Carcinogen Developmental Male Reproductive
ETHYLBENZENE - 100-41-4	Carcinogen
NAPTHALENE - 91-20-3	Carcinogen
METHANOL - 67-56-1	Developmental

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

Chemical name	New Jersey	Massachusetts	Pennsylvania
STYRENE 100-42-5	X	X	X
METHACRYLIC ACID 79-41-4	X	X	X
2,4-PENTANEDIONE 123-54-6	X	X	X
COBALT CARBOXYLATE 136-52-7	X		X
ETHYLENE GLYCOL 107-21-1	X	X	X
BENZENE 71-43-2	X	X	X
MINERAL SPIRITS 8052-41-3	X	X	X
NAPHTHENIC ACIDS, COPPER	X		X

SALTS 1338-02-9			
N,N-DIMETHYLANILINE 121-69-7	X	X	X
MINERAL SPIRITS (STODDARD SOLVENT) 8052-41-3	X	X	X
NONANE 111-84-2	X	X	X
NAPHTHENIC ACIDS 1338-24-5	X	X	X
NAPHTHALENE 91-20-3	X	X	X
ETHYLBENZENE 100-41-4	X	X	X
METHANOL 67-56-1	X	X	X

16. OTHER INFORMATION

NFPA
HMIS (Hazardous
Material Information
System)

Health 2
Health 2*

Flammability 3
Flammability 3

Instability 0
Reactivity 0

Physical hazard -

Chronic Hazard Star Legend

** = Chronic Health Hazard*

Prepared By
Revision Date
Revision Summary
1 9 4 5 6 7 10 8 11 13 14 15

Tnemec Regulatory Dept: 816-474-3400
25-Apr-2019

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of SDS