



SAFETY DATA SHEET

1. Identification

Product identifier NACURE® 1419M

Other means of identification

Product code 302616

Product Use Blocked acid catalyst

Manufacturer/Importer/Supplier/Distributor information

Company name King Industries, Inc.

Address Science Road
P.O. Box 588
Norwalk, CT 06852
United States

Telephone +1-203-866-5551

Fax +1-203-866-1268

E-mail msds@kingindustries.com

Emergency phone number For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24 hour emergency telephone, call CHEMTREC at 1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887 (elsewhere).

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin irritation	Category 2
	Eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-HEPTANONE		110-43-0	25 - < 30
BENZENE, DIMETHYL-		1330-20-7	20 - < 25
BENZENE, ETHYL-		100-41-4	5 - < 10
Other components below reportable levels			40 - < 50

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. 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	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant 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	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. 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	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. The product is insoluble in water.

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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Type	Value
2-HEPTANONE (CAS 110-43-0)	PEL	465 mg/m3
		100 ppm
BENZENE, DIMETHYL- (CAS 1330-20-7)	PEL	435 mg/m3
		100 ppm
BENZENE, ETHYL- (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value
BENZENE, ETHYL- (CAS 100-41-4)	TWA	20 ppm

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
2-HEPTANONE (CAS 110-43-0)	IDLH	1.1 %
		800 ppm
BENZENE, ETHYL- (CAS 100-41-4)	IDLH	0.8 %
		800 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value
2-HEPTANONE (CAS 110-43-0)	TWA	465 mg/m3
		100 ppm
BENZENE, DIMETHYL- (CAS 1330-20-7)	STEL	655 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm
BENZENE, ETHYL- (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm

Biological limit values**ACGIH Biological Exposure Indices (BEI)**

Components	Value	Determinant	Specimen	Sampling Time
BENZENE, ETHYL- (CAS 100-41-4)	150 mg/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*

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

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) meeting EN166 standard.

Skin protection**Hand protection**

Chemically resistant gloves conforming to EN 374 standard. Recommended: Protective index 6, corresponding > 480 minutes of permeation time; nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Other

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).

Respiratory protection

Use a NIOSH/MSHA approved respirator or EN 140 compliant half-face respirator fitted with an EN 14387 Type A filter if there is a risk of exposure at levels exceeding the exposure limits. Follow device manufacturer's guidance.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. 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	Brown
Odor	Fruity.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	237.2 °F (114 °C)
Flash point	101.1 °F (38.4 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Flammable liquid.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Solubility (other)	Soluble in alcohols, aliphatic hydrocarbons, esters, glycol ethers and ketones. Partially soluble in aromatic hydrocarbons. Insoluble in glycols.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	9.42 cSt
Viscosity temperature	104 °F (40 °C)
Other information	
Density	0.94 g/cm ³
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.
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Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways. Harmful if inhaled.
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Components	Species	Test Results
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2-HEPTANONE (CAS 110-43-0)

Acute

Dermal

LD50	Rabbit	12600 mg/kg
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Oral

LD50	Rat	1.67 g/kg
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BENZENE, DIMETHYL- (CAS 1330-20-7)

Acute

Dermal

LD50	Rabbit	> 12130 mg/kg
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Inhalation

LC50	Rat	27120 mg/m3, 4 Hours
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Oral

LD50	Rat	3523 mg/kg
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BENZENE, ETHYL- (CAS 100-41-4)

Acute

Dermal

Liquid

LD50	Rabbit	15400 mg/kg
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Inhalation

Vapor

LC50	Rat	17.2 mg/l
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Oral

Liquid

LD50	Rat	3500 mg/kg
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Skin corrosion/irritation	Causes skin irritation.
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Irritation Corrosion - Skin

BENZENE, DIMETHYL-	Result: Irritating
BENZENE, ETHYL-	Result: Not irritating

Serious eye damage/eye irritation	Causes serious eye irritation.
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Eye

BENZENE, DIMETHYL-	Result: Irritating
BENZENE, ETHYL-	Result: Not irritating

Respiratory or skin sensitization

Respiratory sensitization	Based on available data, the classification criteria are not met.
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Skin sensitization	This product is not expected to cause skin sensitization.		
Sensitization			
BENZENE, DIMETHYL-	Result: Not a sensitizer		
BENZENE, ETHYL-	Result: Not a sensitizer		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Germ cell mutagenicity: Ames test			
BENZENE, DIMETHYL-	Result: Negative		
BENZENE, ETHYL-	Result: Negative		
Germ cell mutagenicity: Chromosome Aberration			
BENZENE, DIMETHYL-	Result: Negative		
BENZENE, ETHYL-	Result: Negative		
Mutagenicity			
BENZENE, DIMETHYL-	Result: Negative		
BENZENE, ETHYL-	Result: Negative		
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
BENZENE, DIMETHYL- (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.		
BENZENE, ETHYL- (CAS 100-41-4)	2B Possibly carcinogenic to humans.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			
Not listed.			
US. National Toxicology Program (NTP) Report on Carcinogens			
Not listed.			
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Developmental effects			
BENZENE, ETHYL-	2000 ppm		
	Result: NOAEC		
BENZENE, DIMETHYL-	500 ppm		
	Result: NOAEC		
Reproductivity			
BENZENE, DIMETHYL-	> 500 ppm		
	Result: NOAEC		
BENZENE, ETHYL-	100 ppm		
	Result: NOEC		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
BENZENE, ETHYL-	Result: May cause damage to organs through prolonged or repeated exposure.		
	Organ: Liver, kidney and hearing		
Aspiration hazard	May be fatal if swallowed and enters airways.		
BENZENE, ETHYL-	Result: Kinematic viscosity = 0.641 mm ² /s at 40°C		
BENZENE, DIMETHYL-	Result: Kinematic viscosity = 0.743 mm ² /s at 20°C		
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.		

12. Ecological information

Ecotoxicity	Harmful to aquatic life.		
Components	Species		Test Results
2-HEPTANONE (CAS 110-43-0)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	> 146 mg/l, 7 days
Crustacea	EC50	Daphnia magna	> 200 mg/l, 48 hours

Components	Species	Test Results
Fish	LC50	Danio rerio
BENZENE, DIMETHYL- (CAS 1330-20-7)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Algae
Crustacea	EC50	Daphnia
Fish	LC50	Fish
<i>Chronic</i>		
Fish	NOEC	Fish
Persistence and degradability		No data is available on the degradability of the mixture.
Bioaccumulative potential		
Partition coefficient n-octanol / water (log Kow)		
2-HEPTANONE		1.98
BENZENE, DIMETHYL-		3.5
Mobility in soil		No data available.
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	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. 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	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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.
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	
UN number	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (2-HEPTANONE, XYLENES SOLUTION RQ = 165 LBS (Denotes Product Quantity))
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Label(s)	3
Packing group	III
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
IATA	
UN number	UN1993

UN proper shipping name	Flammable liquid, n.o.s. (2-HEPTANONE, XYLENES SOLUTION)
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (2-HEPTANONE, XYLENES SOLUTION)
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

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

DOT



IATA; IMDG



15. Regulatory information

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

Toxic Substances Control Act (TSCA) All components of the mixture are either listed on the TSCA 8(b) inventory and are designated "Active", or are exempt from listing.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312 Hazardous chemical

Yes

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)
 Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)
 Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
BENZENE, DIMETHYL-	1330-20-7	20 - < 25
BENZENE, ETHYL-	100-41-4	5 - < 10

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

BENZENE, DIMETHYL- (CAS 1330-20-7)

BENZENE, ETHYL- (CAS 100-41-4)

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

Not regulated.

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

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

2-HEPTANONE (CAS 110-43-0)

Other Flavoring Substances with OSHA PEL's

US state regulations**California Proposition 65**

WARNING: This product can expose you to BENZENE, ETHYL-, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

BENZENE, ETHYL- (CAS 100-41-4)

Listed: June 11, 2004

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region	Inventory name	On inventory (yes/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	05-30-2023
Revision date	02-23-2024
Version #	04
HMIS® ratings	Health: 3* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 3 Instability: 0

NFPA ratings	
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List of abbreviations	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures). ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route). CAS: Chemical Abstract Service. CEN: European Committee for Standardization (Comité Européen de Normalisation). EC: European Community. EC50: Effective Concentration 50%. IBC Code: International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk). IMDG: International Maritime Dangerous Goods. LC50: Lethal Concentration 50%. LD50: Lethal Dose 50%. OECD: Organization for Economic Cooperation and Development. QSAR: Quantitative Structure Activity Relation. UN: United Nations. SDS: Safety Data Sheet. REACH: Registration, Evaluation and Authorization of Chemicals. EN: European Norm. NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. NOEL: No Observed Effect Level. IATA: International Air Transport Association. CLP: Classification, Labeling and Packaging. EU: European Union.
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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.
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Revision information	Section 2: The classification of the product has been updated. Section 12: Ecotoxicological data was updated. Section 14: Updated Transport information.
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