

Safety Data Sheet Red Alert eh1

1. Product and company identification

Product name : Red Alert eh1

Material uses Petrochemical industry: Fuel additive.

Internal code IFS0343 : IFS0343 System code Date of issue/Date of revision : 2020-08-10 : 2020-08-10 Date of previous issue

Version : 1.2

Supplier : Innospec Fuel Specialties LLC

8310 South Valley Highway

Suite 350 Englewood CO, 80112 **USA**

Information contact : 1-800-441-9547

e-mail address of person responsible

for this SDS

Brazil

China

: sdsinfo@innospecinc.com

NON-emergency enquiries : corporatecommunications@innospecinc.com

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

Country information : Emergency telephone number

USA, Canada, Puerto Rico, Virgin Islands : +1 800 424 9300 In case of difficulties, or for ships at sea : +1 703 527 3887

In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



Brazil

Beijing China

The main regional centres are listed here in Section 1.

Other local contact numbers for specific language support in Asia Pacific are listed in Section 16

Country information : Emergency telephone number Location

South America (all countries) +1 215 207 0061 Philadelphia USA

+55 11 3197 5891 Mexico +52 555 004 8763 Mexico Europe (all countries) Middle East, Africa (French, Portuguese, English) +44 (0) 1235 239 670 London, UK Lebanon Middle East, Africa (Arabic, French, English) +44 (0) 1235 239 671 Asia Pacific (all countries except China) · +65 3158 1074 Singapore

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400 120 6011

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms



Signal word

word : Danger

Hazard statements

: H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P233 - Keep container tightly closed.

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing vapor.

P264 - Wash hands thoroughly after handling.

Response

: P308 + P313 - IF exposed or concerned: Get medical attention.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or

physician. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

Storage

: P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

classified

: None known.

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Section 2. Hazards identification

Target organs

: Contains material which causes damage to the following organs: blood, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: kidneys, lungs, liver, spleen.

See toxicological information (Section 11)

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Solvent naphtha (petroleum), heavy arom.	30 - 60	64742-94-5
propan-2-ol; isopropanol	30 - 60	67-63-0
naphthalene	1 - 4.99	91-20-3
1,2,4-trimethylbenzene	1 - 4.99	95-63-6
2-ethylhexan-1-ol	1 - 4.99	104-76-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Additional information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

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Section 4. First aid measures

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flash point

: Closed cup: 14°C (57.2°F) [Pensky-Martens.]

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

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Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

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Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
propan-2-ol; isopropanol	ACGIH TLV (United States, 3/2017). TWA: 200 ppm, 0 times per shift, 8 hours. STEL: 400 ppm, 0 times per shift, 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm, 0 times per shift, 8 hours. TWA: 980 mg/m³, 0 times per shift, 15 minutes. STEL: 500 ppm, 0 times per shift, 15 minutes. STEL: 1225 mg/m³, 0 times per shift, 15 minutes. NIOSH REL (United States, 10/2016). TWA: 400 ppm, 0 times per shift, 10 hours. TWA: 980 mg/m³, 0 times per shift, 10 hours. STEL: 500 ppm, 0 times per shift, 15 minutes. STEL: 1225 mg/m³, 0 times per shift, 15 minutes. OSHA PEL (United States, 6/2016). TWA: 400 ppm, 0 times per shift, 8 hours. TWA: 980 mg/m³, 0 times per shift, 8 hours.
naphthalene	ACGIH TLV (United States, 3/2019). Absorbed through skin. TWA: 10 ppm, 0 times per shift, 8 hours. TWA: 52 mg/m³, 0 times per shift, 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 10 ppm, 0 times per shift, 8 hours. TWA: 50 mg/m³, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. NIOSH REL (United States, 10/2016). TWA: 10 ppm, 0 times per shift, 10 hours. TWA: 50 mg/m³, 0 times per shift, 10 hours. STEL: 15 ppm, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. STEL: 75 mg/m³, 0 times per shift, 15 minutes. STEL: 75 mg/m³, 0 times per shift, 15 minutes. OSHA PEL (United States, 5/2018). TWA: 10 ppm, 0 times per shift, 8 hours. TWA: 50 mg/m³, 0 times per shift, 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2019). TWA: 25 ppm, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

TWA: 123 mg/m³, 0 times per shift, 8 hours. OSHA PEL 1989 (United States, 3/1989).

TWA: 25 ppm, 0 times per shift, 8 hours. TWA: 125 mg/m³, 0 times per shift, 8 hours. NIOSH REL (United States, 10/2016).

TWA: 25 ppm, 0 times per shift, 10 hours. TWA: 125 mg/m³, 0 times per shift, 10 hours.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : light yellow to amber

Odor : Aromatic. **Odor threshold** : Not available. Ha : Not available.

Melting point/freezing point : Not available.

Boiling point : Lowest known value: 82.5°C (180.5°F) (isopropanol). Weighted average: 152.74°C (306.

: Closed cup: 14°C (57.2°F) [Pensky-Martens.] Flash point

: Highest known value: 1.7 (isopropanol) Weighted average: 0.68compared with butyl **Evaporation rate**

acetate

: Not available. Flammability (solid, gas)

Lower and upper explosive (flammable) limits

: Greatest known range: Lower: 0.79% Upper: 12.7% (2-ethylhexan-1-ol)

Vapor pressure : Highest known value: 4.4 kPa (33 mm Hg) (at 20°C) (isopropanol). Weighted average:

1.75 kPa (13.13 mm Hg) (at 20°C)

Vapor density : Highest known value: 4.6 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy arom.).

Weighted average: 3.9 (Air = 1)

Specific gravity : 0.855 [ASTM D 4052]

Density : 7.12 lbs/gal

Solubility : Insoluble in the following materials: cold water, hot water.

Partition coefficient: n-Not available.

Auto-ignition temperature : Lowest known value: 270 to 330°C (518 to 626°F) (2-ethylhexan-1-ol).

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): <0.02 cm²/s (<2 cSt)

Section 10. Stability and reactivity

Reactivity

octanol/water

Chemical stability

Possibility of hazardous

reactions

: No specific test data related to reactivity available for this product or its ingredients.

: The product is stable.

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Dos	se se
Solvent naphtha (petroleum), heavy arom.	-	Rat	LC50 Inhalation Vapor	>590 mg/ m³	4 hours
	-	Rabbit	LD50 Dermal	>2 mL/kg	-
	-	Rabbit	LD50 Dermal	2000 mg/kg	-
	-	Rat	LDLo Oral	5 mL/kg	-
propan-2-ol; isopropanol	-	Rat	LD50 Oral	4700 mg/kg	-
naphthalene	-	Rat	LC50 Inhalation Vapor	>340 mg/ m³	1 hours
	-	Rabbit	LD50 Dermal	>2000 mg/ kg	-
	-	Rat	LD50 Oral	490 mg/kg	-
2-ethylhexan-1-ol	OECD 403 Acute Inhalation Toxicity	Rat - Male,	LC50 Inhalation Dusts and mists	<5.3 mg/l	4 hours
	0505 400 4 4 4 4 4 4	Female			4.1
	OECD 403 Acute Inhalation Toxicity	Rat - Male, Female	LC50 Inhalation Vapor	>0.89 mg/l	4 hours
	OECD 402 Acute Dermal Toxicity	Rat - Male, Female	LD50 Dermal	>3000 mg/ kg	-
	OECD 401 Acute Oral Toxicity	Rat - Male	LD50 Oral	2047 mg/kg	-

Potential chronic health effects

Product/ingredient name	Test	Species	Result	Dose
2-ethylhexan-1-ol	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat - Male, Female	Sub-chronic NOEL Oral	125 mg/kg
	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat - Male, Female	Sub-chronic NOAEL Oral	250 mg/kg
	OECD 413 Subchronic Inhalation Toxicity: 90-day Study	Rat - Male, Female	Sub-chronic NOAEC Inhalation Vapor	120 ppm

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Solvent naphtha (petroleum), heavy arom.	-	Rabbit	Skin - Mild irritant -
,	-	Mammal - species unspecified	Eyes - Mild irritant -
propan-2-ol; isopropanol	-	Rabbit Rabbit	Eyes - Moderate irritant - Eyes - Moderate irritant -
	-	Rabbit Rabbit	Eyes - Severe irritant - Skin - Mild irritant -
2-ethylhexan-1-ol	-	Rabbit Rabbit	Eyes - Moderate irritant - Eyes - Severe irritant -
	-	Rabbit	Skin - Moderate irritant -

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Section 11. Toxicological information

Sensitization

Product/ingredient name	Test	Species	Result
2-ethylhexan-1-ol	-	Guinea pig	Not sensitizing -

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-ethylhexan-1-ol	OECD 471 Bacterial Reverse	Experiment: In vitro	Negative
	Mutation Test	Subject: Bacteria	
		Metabolic activation: with and without	
	OECD 473 In vitro Mammalian	Experiment: In vitro	Negative
	Chromosomal Aberration Test	Subject: Mammalian-Animal	
		Metabolic activation: with and without	
	OECD 476 In vitro Mammalian	Experiment: In vitro	Negative
	Cell Gene Mutation Test	Subject: Mammalian-Animal	
		Metabolic activation: with and without	

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
propan-2-ol; isopropanol	-	3	-
naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	•	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. propan-2-ol; isopropanol 1,2,4-trimethylbenzene	Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation
2-ethylhexan-1-ol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum),	Acute EC50 1 to 3 mg/l	Algae	72 hours
heavy arom.			
	Acute EC50 3 to 10 mg/l	Daphnia	48 hours
	Acute LC50 2 to 5 mg/l	Fish	96 hours
propan-2-ol; isopropanol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 to 1950000 μg/l	Crustaceans - Crangon crangon	48 hours
	Marine water		
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
	Acute LC50 6550 mg/l	Fish	96 hours
naphthalene	Acute EC50 1.96 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
•	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 1.6 mg/l	Fish	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Oreochromis mossambicus	60 days
1,2,4-trimethylbenzene	Acute LC50 7.72 mg/l	Fish	96 hours
2-ethylhexan-1-ol	Acute EC50 11.5 mg/l	Algae	72 hours
•	Acute EC50 39 mg/l	Daphnia	48 hours

Persistence and degradability

Product/ingredient name	Test	Result
2-ethylhexan-1-ol	Test (I)	79 to 99.9 % - Readily - 14 days >60 % - Readily - 28 days

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Solvent naphtha (petroleum),	-	-	Inherent
heavy arom. propan-2-ol; isopropanol	-	-	Readily
2-ethylhexan-1-ol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent naphtha (petroleum), heavy arom.	-	<100	low
propan-2-ol; isopropanol naphthalene 1,2,4-trimethylbenzene 2-ethylhexan-1-ol	0.05 3.3 4.09 2.3 to 3.1	- >100 275 25.33	low low low

Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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	DOT Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (isopropanol, 2-ethylhexan- 1-ol). Marine pollutant (Solvent naphtha (petroleum), heavy arom.) RQ (naphthalene)	FLAMMABLE LIQUID, N.O.S. (isopropanol, 2-ethylhexan-1-ol). Marine pollutant (Solvent naphtha (petroleum), heavy arom., naphthalene)	Flammable liquid, n.o.s. (isopropanol, 2-ethylhexan-1-ol)
Transport hazard class(es)	3 THE PROPERTY OF THE PROPERT	3	S
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Reportable quantity 3206.7 lbs / 1455.8 kg [449.81 gal / 1702.7 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E_ Special provisions 274	

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Section 14. Transport information

Packaging instruction

Exceptions: 150. Non-bulk:

202. Bulk: 242.

Quantity limitation Passenger

aircraft/rail: 5 L. Cargo aircraft:

60 L.

Special provisions IB2, T7,

TP1, TP8, TP28

Remarks ORM-D Consumer

commodity

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Section 15. Regulatory information

: United States inventory (TSCA 8b): All components are listed or exempted. **U.S. Federal regulations**

Clean Water Act (CWA) 307: naphthalene; ethylbenzene; toluene

Clean Air Act Section 112 : Listed

(b) Hazardous Air **Pollutants (HAPs)**

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Fire hazard

> Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Solvent naphtha (petroleum), heavy arom.	30 - 60	Yes.	No.	No.	Yes.	No.
propan-2-ol; isopropanol	30 - 60	Yes.	No.	No.	Yes.	No.
naphthalene	0.99 - 4.99	No.	No.	No.	Yes.	Yes.
1,2,4-trimethylbenzene	0.99 - 4.99	Yes.	No.	No.	Yes.	No.
2-ethylhexan-1-ol	0.99 - 4.99	Yes.	No.	No.	Yes.	No.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	naphthalene	67-63-0 91-20-3 95-63-6	30 - 60 0.99 - 4.99 0.99 - 4.99
Supplier notification	naphthalene	67-63-0 91-20-3 95-63-6	30 - 60 0.99 - 4.99 0.99 - 4.99

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: NAPHTHALENE; PSEUDOCUMENE;

ISOPROPYL ALCOHOL; 2-PROPANOL; 2-ETHYLHEXANOL

New York : The following components are listed: Naphthalene

The following components are listed: NAPHTHALENE; MOTH FLAKES; **New Jersey**

PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; ISOPROPYL ALCOHOL;

2-PROPANOL

Pennsylvania : The following components are listed: NAPHTHALENE; PSEUDOCUMENE;

2-PROPANOL; 1-HEXANOL, 2-ETHYL-

California Prop. 65 : **WARNING**: This product can expose you to chemicals including naphthalene,

> ethylbenzene, Cumene, which are known to the State of California to cause cancer, and toluene, which is known to the State of California to cause birth defects or other

reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	Contains : % or ppm
naphthalene	Yes.	No.			≤5
ethylbenzene	Yes.	No.			<0.1
cumene	Yes.	No.			<0.1
toluene	No.	Yes.			<0.1

: Not determined.

International lists

National inventory

Australia inventory (AICS) : Not determined.

Canada inventory All components are listed or exempted. China inventory (IECSC) At least one component is not listed.

Europe inventory : All components are listed or exempted.

Japan inventory **Japan inventory (ENCS)**: At least one component is not listed.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC)

Philippines inventory (PICCS) At least one component is not listed. Korea inventory (KECI) : At least one component is not listed.

Taiwan inventory (TCSI) : Not determined.

United States inventory (TSCA 8b) : All components are listed or exempted.

Section 15. Regulatory information

Our REACH (pre-) registrations DO NOT cover the following:

- 1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and
- 2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations Customers and other third parties importing and/or re-importing our products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
- In the case of importation only, to make use of the "Only Representative" provisions, if available.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

▼ Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 2020-08-10

Red Alert eh1

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes 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 hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 2020-08-10