

Safety Data Sheet Red Alert eh1

Product and company identification 1.

Red Alert eh1 **Product name** : IFS0343 Internal code : IFS0343 System code

: Innospec Fuel Specialties LLC **Supplier**

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

: 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

+1 800 424 9300 USA, Canada, Puerto Rico, Virgin Islands 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



: Emergency telephone number

Country information

Emergency telephone Location number

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

+55 113 711 9144 Brazil Brazil +52 555 004 8763 Mexico Mexico Europe (all countries) Middle East, Africa (French, Portuguese, English) +44 (0) 1235 239 670 London, UK Middle East, Africa (Arabic, French, English) +44 (0) 1235 239 671 Lebanon Asia Pacific (all countries except China) +65 3158 1074 Singapore China +86 10 5100 3039 Beijing China

Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

: FLAMMABLE LIQUIDS - Category 2 Classification of the substance or mixture

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2

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

Category 3



Section 2. Hazards identification

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation. H351 - Suspected of causing cancer.

H336 - May cause drowsiness and dizziness.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

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

P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection.

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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel

unwell.

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.

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)

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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
propan-2-ol; isopropanol	30 - 60	67-63-0
Benzene, ethylenated, residues, distn. lights	30 - 60	178535-25-6
Solvent naphtha (petroleum), heavy arom.	15 - 30	64742-94-5
naphthalene	0.99 - 4.99	91-20-3
1,2,4-trimethylbenzene	0.99 - 4.99	95-63-6
2-ethylhexan-1-ol	0.99 - 4.99	104-76-7

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

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
	evelids. 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 : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and

the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. 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

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

dizziness.

Skin contact: No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression. Irritating to mouth, throat and

stomach.

Over-exposure signs/symptoms

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Section 4. First aid measures

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 : No specific data.

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

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Flash point

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

: Do not use water jet.

: 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. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

: 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.

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

: 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.

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Section 6. Accidental release measures

For emergency responders: If specialised 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 nonemergency 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). Water polluting material. May be harmful to the environment if released in large quantities.

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

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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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.

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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
propan-2-ol; isopropanol	ACGIH TLV (United States, 4/2014). 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, 10/2013). TWA: 400 ppm, 0 times per shift, 10 hours. TWA: 980 mg/m³, 0 times per shift, 10 hours. STEL: 1225 mg/m³, 0 times per shift, 15 minutes. OSHA PEL (United States, 2/2013). TWA: 400 ppm, 0 times per shift, 8 hours.
naphthalene	TWA: 980 mg/m³, 0 times per shift, 8 hours. ACGIH TLV (United States, 4/2014). 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, 10/2013). TWA: 10 ppm, 0 times per shift, 10 hours. TWA: 50 mg/m³, 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, 2/2013). 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, 4/2014). TWA: 25 ppm, 0 times per shift, 8 hours. 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, 10/2013). 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.

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Section 8. Exposure controls/personal protection

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

: Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

: Liquid.

Aromatic.

Appearance

Physical state

Color : light yellow to amber

Odor

Odor threshold : Not available.

На

: Not available.

Melting point

: Not available.

Boiling point

Lowest known value: 82.5°C (180.5°F) (isopropanol). Weighted average: 166.99°C (332.

Flash point

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

Evaporation rate

: Highest known value: 1.7 (isopropanol) Weighted average: 0.93compared with butyl acetate

Flammability (solid, gas)

: Not available.

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: 1.65 kPa (12.38 mm Hg) (at 20°C)

Vapor density

: Highest known value: 5.5 (Air = 1) (Benzene, ethylenated, residues, distn. lights). Weighted average: 4.09 (Air = 1)

Specific gravity: 0.855 [ASTM D 4052]

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Section 9. Physical and chemical properties

Density : 7.12 lbs/ga

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

Partition coefficient: n-

octanol/water

: 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** : Not available.

Section 10. Stability and reactivity

Reactivity

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

Chemical stability

: The product is stable.

Possibility of hazardous reactions

: 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Dose
isopropanol	-	Rat	LD50 Oral	5000 mg/kg
Benzene, ethylenated,	OECD 423 Acute Oral toxicity -	Rat - Male,	LD50 Oral	>2000 mg/kg
residues, distn. lights	Acute Toxic Class Method	Female		
Solvent naphtha (petroleum),	-	Rat	LC50 Inhalation	>590 mg/m³
heavy arom.			Vapor	
	-	Rabbit	LD50 Dermal	>2 mL/kg
	- · · · · · · · · · · · · · · · · · · ·	Rat	LDLo Oral	5 mL/kg
naphthalene		Rat	LC50 Inhalation	>340 mg/m³
			Vapor	
	-	Rabbit	LD50 Dermal	>2000 mg/kg
	- ()	Rat	LD50 Dermal	>2500 mg/kg
	- /	Rat	LD50 Oral	490 mg/kg
2-ethylhexan-1-ol	- ' ('	Rabbit	LD50 Dermal	1970 mg/kg
	-	Rat	LD50 Oral	3730 mg/kg

Potential chronic health effects

Not available.

Irritation/Corrosion

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

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Section 11. Toxicological information

	-	Rabbit	Skin - Moderate irritant -	

Sensitization

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
, - · , - · · · · ,	OECD 471 Bacterial Reverse Mutation Test	Subject: Bacteria	Negative

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
propan-2-ol; isopropanol	Acute LC50 1400000 to 1950000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 6550 mg/l	Fish	96 hours
Benzene, ethylenated, seridues, distn. lights	Acute EC50 6.2 mg/l (growth rate) Fresh water	Algae	72 hours WAF
	Acute EC50 1.3 mg/l Fresh water	Daphnia	48 hours WAF
Solvent naphtha (petroleum), heavy arom.	Acute EC50 1 to 3 mg/l	Algae	72 hours
,	Acute EC50 3 to 10 mg/l Acute LC50 2 to 5 mg/l	Daphnia Fish	48 hours 96 hours

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Section 12. Ecological information

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
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
	Acute LC50 10 to 33 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		
Benzene, ethylenated, residues, distn. lights 2-ethylhexan-1-ol	OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test) OECD 301F Ready Biodegradability - Manometric Respirometry Test 15 % - Not readily - 28 days >60 % - Readily - 28 days			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
propan-2-ol; isopropanol Benzene, ethylenated, residues, distn. lights Solvent naphtha (petroleum), heavy arom. 2-ethylhexan-1-ol	- - -		Readily Not readily Inherent Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propan-2-ol; isopropanol Benzene, ethylenated, residues, distn. lights	0.05 3.43 to 6.5		low high
Solvent naphtha (petroleum), heavy arom.	-	<100	low
naphthalene 1,2,4-trimethylbenzene 2-ethylhexan-1-ol	3.3 4.09 2.3 to 3.1	>100 275	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

	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 (Benzene, ethylenated, residues, distn. lights, Solvent naphtha (petroleum), heavy arom.) RQ (naphthalene)	FLAMMABLE LIQUID, N.O.S. (isopropanol, 2-ethylhexan-1-ol). Marine pollutant (Benzene, ethylenated, residues, distn. lights, Solvent naphtha (petroleum), heavy arom.)	Flammable liquid, n.o.s. (isopropanol, 2-ethylhexan-1-ol)
Transport hazard class(es)	Transfer (1900)	3	3
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	No.
Additional information	The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes. Reportable quantity 2466.7 lbs / 1119.9 kg [346.01 gal / 1309.8 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. Packaging instruction Passenger aircraft Quantity limitation: 5 L Cargo aircraft Quantity limitation: 60 L Special provisions IB2, T7, TP1, TP8, TP28 Remarks ORM-D Consumer commodity	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-E, _S-E_ Special provisions 274	The environmentally hazardous substance mark may appear if required by other transportation regulations. Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 353 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341 Special provisions A3

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.

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Section 14. Transport information

Section 15. Regulatory information

U.S. Federal regulations

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

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
propan-2-ol; isopropanol	30 - 60	Yes.	No.	No.	Yes.	No.
Benzene, ethylenated, residues, distn. lights	30 - 60	Yes.	No.	No.	No.	No.
Solvent naphtha (petroleum), heavy	15 - 30	Yes.	No.	No.	Yes.	No.
arom.						
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

	Product name	CAS number	%
Form R - Reporting requirements	isopropanol	67-63-0	30 - 60
	naphthalene	91-20-3	0.99 - 4.99
	1,2,4-trimethylbenzene	95-63-6	0.99 - 4.99
Supplier notification	isopropanol	67-63-0	30 - 60
	naphthalene	91-20-3	0.99 - 4.99
	1,2,4-trimethylbenzene	95-63-6	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: ISOPROPYL ALCOHOL; NAPHTHALENE; 2-ETHYLHEXANOL; PSEUDOCUMENE

New York

: The following components are listed: Naphthalene

New Jersey

: The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; NAPHTHALENE; MOTH FLAKES; PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE

Pennsylvania

: The following components are listed: 2-PROPANOL; NAPHTHALENE; 1-HEXANOL,

2-ETHYL-; PSEUDOCUMENE

California Prop. 65

Date of issue/Date of revision : 2015-05-25

Section 15. Regulatory information

: **WARNING:** This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	Contains : % or ppm
naphthalene	Yes.	No.	Yes.	No.	0.99 - 4.99
ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.	<100ppm
toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)	<100ppm
cumene	Yes.	No.	No.	No.	<100ppm

International lists

National inventory

Australia inventory (AICS)

Canada inventory

China inventory (IECSC)

Europe inventory

Japan inventory (ENCS)

New Zealand Inventory of Chemicals (NZIoC)

Philippines inventory (PICCS)

Korea inventory (KECI)

Taiwan inventory (TCSI)

United States inventory (TSCA 8b)

: All components are listed or exempted.

All components are listed or exempted.

: At least one component is not listed.

: At least one component is not listed in EINECS but all such components are listed in ELINCS.

Please contact your supplier for information on the inventory status of this material.

: At least one component is not listed.

: Not determined.

: At least one component is not listed.

: At least one component is not listed.

: All components are listed or exempted.

: All components are listed or exempted.

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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

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Section 16. Other information



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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.

Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

Risk phrases: R11- Highly flammable.

R40- Limited evidence of a carcinogenic effect.

R21- Harmful in contact with skin. R36/38- Irritating to eyes and skin.

R67- Vapors may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases : S36/37- Wear suitable protective clothing and gloves.

S61- Avoid release to the environment. Refer to special instructions/safety data

sheet.

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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 73/78 = 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

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.