# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

# 1. Identification

# Product identifier: RAM-TACK SPRAY ADHESIVE

Other means of identification SDS number: RE1000035764

Recommended restrictions Recommended use: Adhesive Restrictions on use: Not known.

### Manufacturer/Importer/Distributor Information

### Manufacturer

Company Name:	ARAMSCO, INC
Address:	1480 GRANDVIEW AVE
	PAULSBORO, NJ 08066
	US
Telephone:	800-767-6933

### Emergency telephone number: 1-866-836-8855

# 2. Hazard(s) identification

Hazard Classification Physical Hazards	
Flammable aerosol Health Hazards	Category 1
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3 (Narcotic effect.)
Environmental Hazards	
Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 3

### **Label Elements**

### Hazard Symbol:



Signal Word:

Danger

Hazard Statement:	Extremely flammable aerosol. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Response:	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. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
2-Propanone	67-64-1	20 - <50%
Propane	74-98-6	10 - <20%
Butane	106-97-8	10 - <20%
Acetic acid, methyl ester	79-20-9	10 - <20%
Naphtha (petroleum), hydrotreated light	64742-49-0	5 - <10%
Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	1 - <5%
Heptane	142-82-5	1 - <2.5%
Maleic Anhydride Modified Liquid Polyisoprene	841251-34-1	1 - <5%
Cyclohexane, methyl-	108-87-2	0.1 - <1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

# 4. First-aid measures

# Description of necessary first-aid measures

Inhalation:

Move to fresh air.

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Skin Contact:	If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.	
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Personal Protection for First- aid Responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
Most important symptoms/effect	cts, acute and delayed	
Symptoms:	No data available.	
Hazards:	No data available.	
Indication of immediate medica	I attention and special treatment needed	
Treatment:	Get medical attention if symptoms occur.	
5. Fire-fighting measures		
General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.	
Suitable (and unsuitable) exting	juishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
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 travel considerable distance to a source of ignition and flash back.	
Special protective equipment a	nd precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	t Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measure	es	
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	

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Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.	
7. Handling and storage		
Handling		
Technical measures (e.g. Local and general ventilation):	No data available.	
Safe handling advice:	Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with eyes, skin, and clothing.	
Contact avoidance measures:	No data available.	
Storage		
Safe storage conditions:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.Aerosol Level 2	
Safe packaging materials:	No data available.	
Storage Temperature:	No data available.	

# 8. Exposure controls/personal protection

# **Control Parameters**

Chemical Identity	Туре	Exposure L	imit Values	Source
2-Propanone	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	750 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Acetic acid, methyl ester	REL	200 ppm	610 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	250 ppm	760 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	200 ppm	610 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm	610 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

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	STEL	250 ppm	760 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as
				amended
Naphtha (petroleum),	TWA REL	200 ppm 100 ppm	400 mg/m3	US. ACGIH Threshold Limit Values, as amended US. NIOSH: Pocket Guide to Chemical Hazards, as
hydrotreated light	TWA	100 ppm	400 mg/m3	amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as
	PEL	100 ppm	400 mg/m3	amended US. OSHA Table Z-1 Limits for Air Contaminants
Heptane	TWA	400 ppm	1,600 mg/m3	(29 CFR 1910.1000), as amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as
Tieptane			, 0	amended
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended
	Ceil_Time	440 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Cyclohexane, methyl-	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	400 ppm	1,600 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hexane	TWA	50 ppm	180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	500 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	50 ppm	180 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended
Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	300 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	300 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	300 ppm	1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

	TWA	100 ppm 435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as
	TWA	20 ppm	amended US. ACGIH Threshold Limit Values, as amended
Benzene	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as
		•••• PP···	amended
	TWA	1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as
			amended
	Ceiling	25 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	0.5 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	2.5 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	OSHA_AC T	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

# **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 µg/g (Creatinine in urine)	ACGIH BEL

# Exposure guidelines

Methanol	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Hexane	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

# Appropriate EngineeringNo data available.Controls

# Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	No data available.
Skin and Body Protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

# 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	-104 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	Estimated 9.5 %(V)
Explosive limit - lower (%):	Estimated 1.9 %(V)
Vapor pressure:	3,102 - 4,481 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Ingestion:	No data available.
Symptoms related to the physica	al, chemical and toxicological characteristics
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effe	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	ATEmix: 8,482.4 mg/kg
Dermal Product:	ATEmix: 5,314.95 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Components: 2-Propanone	NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation
Butane	Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation
Acetic acid, methyl ester	Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation
Naphtha (petroleum), hydrotreated light	Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read- across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal
Benzene, 1-chloro-4- (trifluoromethyl)- Heptane	Experimental result, Supporting study NOAEL (Rat(Male), Inhalation): 5.5 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study
Cyclohexane, methyl-	NOAEL (Rat(Female, Male), Inhalation): 1,600 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 28 d): 1,000 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg Oral Experimental result, Key study
Skin Corrosion/Irritation Product:	No data available.

Components: 2-Propanone Acetic acid, methyl	in vivo (Rabbit): Not irritant in vivo (Rabbit): Not irritant	
ester Naphtha (petroleum), hydrotrootod liebt	In vitro (Human): not corrosive	
hydrotreated light Benzene, 1-chloro-4- (trifluoromethyl)-	estimated Irritating.	
Heptane Cyclohexane, methyl-	in vivo (Rabbit): Irritating estimated Irritating.	
Serious Eye Damage/Eye Irritatio	-	
Product: Components:	No data available.	
2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant	
Acetic acid, methyl ester	Rabbit: Irritating	
Naphtha (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating	
Heptane	Rabbit, 24 - 72 hrs: Not irritating	
Cyclohexane, methyl-	Rabbit, 0.5 - 168 hrs: Not irritating	
Respiratory or Skin Sensitization Product: No data available.		
<b>Components:</b> 2-Propanone Naphtha (petroleum), hydrotreated light Heptane Cyclohexane, methyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising	
Carcinogenicity Product: Components:	No data available.	
Cyclohexane, methyl- May cause cancer. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	

No data available.

Product:

Specific Target Organ Toxicity - Single Exposure		
Product:	No data available.	
Components:		
2-Propanone	Inhalation - vapor: Narcotic effect Category 3 with narcotic effects.	
Heptane	Narcotic effect Category 3 with narcotic effects.	
Cyclohexane, methyl-	Inhalation - vapor: Narcotic effect Category 3 with narcotic effects.	
Specific Target Organ Toxicity - Repeated Exposure		
Product:	No data available.	
Tanad		
Target Organs		
Specific Target Organ Toxicity - Single Exposure: Narcotic effect.		
Aspiration Hazard		
Product:	No data available.	
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Components:		
Naphtha (petroleum), hydrotreated light	May be fatal if swallowed and enters airways.	
Heptane	May be fatal if swallowed and enters airways.	
Cyclohexane, methyl-	May be fatal if swallowed and enters airways.	
Other effects:	No data available.	

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Components:</b> 2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Acetic acid, methyl ester	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Cyclohexane, methyl-	LC 50 (Oryzias latipes, 96 h): 2.07 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
<b>Components:</b> 2-Propanone	LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Acetic acid, methyl ester	EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

# Chronic hazards to the aquatic environment:

Fish Product:	NOEC : Estimated < 1 mg/l	
Aquatic Invertebrates Product:	No data available.	
<b>Components:</b> 2-Propanone	LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study	
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	60 % (28 d) Readily biodegradable	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.	
Components: 2-Propanone	Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified	
Naphtha (petroleum), hydrotreated light	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study	
Cyclohexane, methyl-	Cyprinus carpio, Bioconcentration Factor (BCF): > 95 - < 321 Aquatic sediment Experimental result, Key study	
Partition Coefficient n-octanol / v Product:	vater (log Kow) No data available.	
<b>Components:</b> Naphtha (petroleum), hydrotreated light	Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study	
Mobility in soil:	No data available.	
<b>Components:</b> 2-Propanone Propane Butane Acetic acid, methyl ester Naphtha (petroleum), hydro Benzene, 1-chloro-4-(trifluc Heptane Maleic Anhydride Modified Cyclohexane, methyl-	promethyl)- No data available. No data available.	
Other adverse effects:	Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects	

Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	No data available.
14. Transport information	
DOT UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.:	UN 1950 Aerosols, flammable 2.1 –
Packing Group: Special precautions for user:	– Not regulated.
IATA UN Number: UN Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Special precautions for user: Other information Passenger and cargo aircr Cargo aircraft only:	UN 1950 Aerosols, flammable 2.1 - - Not regulated. raft: Allowed. 203 Allowed. 203
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class:	UN 1950 Aerosols, flammable 2.1

Packing Group: Special precautions for user: Not regulated.

The classification shown in this section may be eligible for use of an exception, such as "Limited Quantity", per the dangerous goods regulations. The shipper of this product should consult the applicable mode's regulation for the UN number displayed above to determine if any exceptions are available and may be utilized, at the shipper's discretion.

F-D, S-U

# 15. Regulatory information

# **US Federal Regulations**

Label(s):

EmS No.:

Restrictions on use: Not known.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

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

Chemic	al Ic	<u>lentity</u>
Benzen	е	

OSHA hazard(s) Flammability Cancer Aspiration Eve Blood Skin respiratory tract irritation Central nervous system

### CERCLA Hazardous Substance List (40 CFR 302.4):

### **Chemical Identity**

2-Propanone ACETONE UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY RCRA HAZARDOUS WASTE NO. D001 Acetic acid, methyl ester **METHANOL** METHYL ALCOHOL BENZENE. METHYL-HEXANE Hexane **CYCLOHEXANE** BENZENE, HEXAHYDRO-**ETHYLBENZENE** BENZENE

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

### US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

# US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

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

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

### **US State Regulations**

# **US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Benzene which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Benzene, 1-chloro-4-(trifluoromethyl)-, Benzene, ethyl- which is [are] known to the State of California to cause cancer. This product can expose you to chemicals including, Methanol, Benzene, methyl-, Hexane which is [are] known to the State of California to cause birth defects or other reproductive harm.

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

# US. New Jersey Worker and Community Right-to-Know Act <u>Chemical Identity</u>

2-Propanone Propane Butane Acetic acid, methyl ester Naphtha (petroleum), hydrotreated light Methane, 1,1'-oxybis-Benzene, 1-chloro-4-(trifluoromethyl)-Heptane

# US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

# US. Pennsylvania RTK - Hazardous Substances

# Chemical Identity

2-Propanone Propane Butane Acetic acid, methyl ester Naphtha (petroleum), hydrotreated light Methane, 1,1'-oxybis-Heptane

### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

# International regulations

# Montreal protocol

2-Propanone Acetic acid, methyl ester

# Stockholm convention

2-Propanone Acetic acid, methyl ester

# **Rotterdam convention**

2-Propanone Acetic acid, methyl ester

# Kyoto protocol

### Inventory Status: Australia AICS

Australia AICS	Not in compliance with the inventory.
EINECS, ELINCS or NLP	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Philippines PICCS	Not in compliance with the inventory.
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Mexico INSQ	Not in compliance with the inventory.
Ontario Inventory	Not in compliance with the inventory.
Canada DSL Inventory List	On or in compliance with the inventory
US TSCA Inventory	On or in compliance with the inventory
China Inv. Existing Chemical Substances	On or in compliance with the inventory
New Zealand Inventory of Chemicals	On or in compliance with the inventory
Taiwan Chemical Substance Inventory	On or in compliance with the inventory

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

Issue Date:	08/24/2021
<b>Revision Information:</b>	No data available.
Version #:	1.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.