SAFETY DATA SHEET

Item 87A

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: Non-Chlorinated Brake & Metal Parts Cleaner Low VOC

Other means of identification SDS number: RE1000041032

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

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name:	1ST AYD. CORPORATION
Address:	1325 GATEWAY DRIVE
	ELGIN,IL 60124
	US
Telephone:	847-622-0001

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

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

Label Elements

Hazard Symbol:



Signal Word:

Danger

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Hazard Statement:	Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic 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. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well- ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. 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. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage.
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
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	50 - <100%
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - <25%
Benzene, methyl-	108-88-3	10 - <20%
Isopropyl Alcohol	67-63-0	5 - <10%
Carbon dioxide	124-38-9	5 - <10%
Heptane	142-82-5	5 - <10%
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	5989-27-5	1 - <5%

* 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

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Description of necessary first-aid measures					
Inhalation:	Move to fresh air.				
Skin Contact:	Get medical 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 physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.				
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/effec	ts, acute and delayed				
Symptoms:	No data available.				
Hazards:	No data available.				
Indication of immediate medical	attention and special treatment needed				
	Get medical attention if symptoms occur.				
Treatment:	Get medical attention if symptoms occur.				
Treatment: 5. Fire-fighting measures	Get medical attention if symptoms occur.				
	Get medical attention if symptoms occur. 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.				
5. Fire-fighting measures	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.				
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.				
5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing	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. uishing media				
 5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing 	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. uishing media Use fire-extinguishing media appropriate for surrounding materials.				
 5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from 	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. uishing media Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire. Vapors may travel considerable distance to a source of ignition and flash back.				
 5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from the chemical: 	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. uishing media Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire. Vapors may travel considerable distance to a source of ignition and flash back.				

6. Accidental release measure	s Item 87A
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.
Accidental release measures:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.
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.

Contact avoidance measures:	No data available

Storage

Safe storage conditions:	Store locked up. 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

Occupational Exposure Limits Exposure Limit Values Source **Chemical Identity** Туре STEL US. OSHA Table Z-1-A (29 CFR 1910.1000), as 2-Propanone 1,000 ppm 2,400 mg/m3 amended US. OSHA Table Z-1 Limits for Air Contaminants (29 PEL 1,000 ppm 2,400 mg/m3 CFR 1910.1000), as amended TWA 250 ppm US. ACGIH Threshold Limit Values, as amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as TWA 1,800 mg/m3 750 ppm 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

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Naphtha (petroleum), hydrotreated light	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (2 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
	MAX.	500 ppm		amended US. OSHA Table Z-2 (29 CFR 1910.1000), as
	CONC STEL	150 ppm	560 mg/m3	amended US. NIOSH: Pocket Guide to Chemical Hazards, as
				amended
Isopropyl Alcohol	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA REL	200 ppm 400 ppm	980 mg/m3	US. ACGIH Threshold Limit Values, as amended
			-	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (2 CFR 1910.1000), as amended
	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm	1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000	54,000	US. NIOSH: Pocket Guide to Chemical Hazards, as
	REL	ppm 5,000 ppm	mg/m3 9,000 mg/m3	amended US. NIOSH: Pocket Guide to Chemical Hazards, as
	PEL	5,000 ppm	9,000 mg/m3	amended US. OSHA Table Z-1 Limits for Air Contaminants (2 CFR 1910.1000), as amended
	TWA	10,000 ppm	18,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended amended
	STEL	30,000	54,000	US. OSHA Table Z-1-A (29 CFR 1910.1000), as
		ppm	mg/m3	amended
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as 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 (2 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_T ime	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 (2 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
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 (2 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 TWA	100 ppm 300 ppm	1,050 mg/m3	US. ACGIH Threshold Limit Values, as amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as
	REL	300 ppm	1,050 mg/m3	amended US. NIOSH: Pocket Guide to Chemical Hazards, as
			0	amended

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	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
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as 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 ACT	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
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
Isopropyl Alcohol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	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

Appropriate Engineering Controls

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.

Individual protection measures, such as personal protective equipment

No data available.

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:

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Item 87A Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

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:	Estimated -78.5 °C
Flash Point:	Estimated -20 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
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 physical, 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 effects		
Acute toxicity (list all possible routes of exposure)		
Oral Product:	ATEmix: 107,526.88 mg/kg	
Dermal Product:	ATEmix: 14,541.93 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	
Naphtha (petroleum), hydrotreated light	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	
Benzene, methyl-	NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study	
Isopropyl Alcohol Heptane Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Male), Oral, 13 Weeks): 600 mg/kg Oral Experimental result, Key study	
Skin Corrosion/Irritation	No data available	

No data available.

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2-Propanone	in vivo (Rabbit): Not irritant
Naphtha (petroleum),	In vitro (Human): not corrosive
hydrotreated light	
Benzene, methyl-	in vivo (Rabbit): Irritating
Isopropyl Alcohol	in vivo (Rabbit): Not Classified
Heptane	in vivo (Rabbit): Irritating
Cyclohexene, 1-methyl-	in vivo (Rabbit): Not irritant
4-(1-methylethenyl)-,	
(4R)-	
. ,	

Serious Eye Damage/Eye Irritation Product: No data available.

Components:

2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant
Naphtha (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
Benzene, methyl-	Rabbit, 24 - 72 hrs: Not irritating
Isopropyl Alcohol	Rabbit, 1 d: Category 2: Causes serious eye irritation Irritating.
Heptane	Rabbit, 24 - 72 hrs: Not irritating
Cyclohexene, 1-methyl- 4-(1-methylethenyl)-, (4R)-	Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization Product:

No data available.

Components:

2-Propanone	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Naphtha (petroleum),	Skin sensitization:, in vivo (Guinea pig): Non sensitising
hydrotreated light	
Benzene, methyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Isopropyl Alcohol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Heptane	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity Product:

No data available.

- 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	

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Reproductive toxicity Product:	No data available.
Components: Benzene, methyl-	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity Product: Components: 2-Propanone Benzene, methyl- Isopropyl Alcohol Heptane	 Single Exposure No data available. Inhalation - vapor: Narcotic effect Category 3 with narcotic effects. Inhalation - vapor: Narcotic effect Category 3 with narcotic effects. Narcotic effect Category 3 with narcotic effects. Narcotic effect Category 3 with narcotic effects.
Specific Target Organ Toxicity Product: Components: Benzene, methyl-	- Repeated Exposure No data available. Category 2
Target Organs Specific Target Organ Toxic	city - Single Exposure: Narcotic effect.
Aspiration Hazard Product:	No data available.
Components: Naphtha (petroleum), hydrotreated light Benzene, methyl- Heptane	May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways. 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.
Components: 2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Benzene, methyl-	LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study
Isopropyl Alcohol	LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key study
Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	EC 50 (Pimephales promelas, 96 h): 688 μ g/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Components: 2-Propanone	LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

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hydrotreated lightEC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key studyBenzene, methyl-LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality
LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key studyIsopropyl AlcoholLC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key studyCyclohexene, 1-methyl-4-
(1-methylethenyl)-, (4R)-EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study

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Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Components: Naphtha (petroleum), hydrotreated light	NOAEL (Daphnia magna): 2.6 mg/l Other, Key study
Benzene, methyl-	NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Components: 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
Benzene, methyl-	LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study
Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l QSAR QSAR, Weight of Evidence study
Toxicity to Aquatic Plants Product:	No data available.
ersistence and Degradability	
Biodegradation Product:	No data available.
Components: 2-Propanone	90.9 % (28 d) Detected in water. Experimental result, Key study
Naphtha (petroleum), hydrotreated light	95 % (10 d) The 10-day window requirement is fulfilled. 90.35 % (28 d) Detected in water. Experimental result, Supporting study
Benzene, methyl-	100 % (14 d) Detected in water. Experimental result, Weight of Evidence study 86 % Detected in water. Experimental result, Weight of Evidence study
Isopropyl Alcohol	53 % (5 d) Detected in water. Experimental result, Key study
Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-	80 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study

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BOJCUD Ratio No data available. Bioaccumulative potential Bioconcentration Factor (BCF) Product: 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 Benzone, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study Cyclohexene, 1-methyl-4- (1-methylethenyl), (4R)- Bioconcentration Factor (BCF): 864.8 Aquatic sediment QSAR, Key study (1-methylethenyl), (4R)- Partition Coefficient n-octanol / water (log Kow) Product: No data available. Components: Naphtha (petroleum), hydrotreated light Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study (1-methylethenyl), (4R)- Mobility in soil: No data available. Components: No data available. Cyclohexene, 1-methyl-4- (1-methylethenyl), (4R)- Log Kow: + 3.4 - 4.46 25 °C No Experimental result, Supporting study (1-methylethenyl), (4R)- Mobility in soil: No data available. No data available. Components: Naphtha (petroleum), hydrotreated light No data available. No data available. No data considerations No data available. No data available. No data available. Disposa			Item 87A
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Carbon dioxide No data available. Heptane No data available. Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- No data available. Other adverse effects: Toxic to aquatic life with long lasting effects. 13. Disposal considerations Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 UN Number: UN 1950 UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Class: 2.1 Label(s): - EmS No.: - Packing Group: -			
Heptane Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- No data available. Other adverse effects: Toxic to aquatic life with long lasting effects. 13. Disposal considerations: Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 DOT UN Number: UN 1950 UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Class: 2.1 Label(s): - Packing Group: –			
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- No data available. Other adverse effects: Toxic to aquatic life with long lasting effects. 13. Disposal considerations Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 DOT UN Number: UN 1950 Class: 2.1 Label(s): 2.1 EmS No.: Packing Group: –			
Other adverse effects: Toxic to aquatic life with long lasting effects. 13. Disposal considerations Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 UN Number: UN 1950 UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Label(s): - EmS No.: Packing Group:		-methylethenyl) (4R)-	
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 1950 UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Label(s): - EmS No.: - Packing Group: -			
Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 DOT UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Label(s): – Packing Group: –	Other adverse effects:	Toxic to aquatic life with lo	ng lasting effects.
Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Contaminated Packaging: No data available. 14. Transport information UN 1950 DOT UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) 2.1 Label(s): – Packing Group: –	12 Dispessionsiderations		
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DOT UN Number: UN 1950 UN Proper Shipping Name: Aerosols, flammable Transport Hazard Class(es) Class: 2.1 Label(s): – EmS No.: Packing Group: –	Contaminated Packaging:	No data available.	
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Transport Hazard Člass(es) Class: 2.1 Label(s): – EmS No.: Packing Group: –			
Class: 2.1 Label(s): – EmS No.: Packing Group: –		Aerosois, flammab	Ie
Label(s): – EmS No.: Packing Group: –		21	
EmS No.: Packing Group: –		<u> </u>	
	Packing Group:	-	
		Not regulated.	

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ΙΑΤΑ	
UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	-
Packing Group:	_
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 203
Cargo aircraft only:	Allowed. 203
INDO	
IMDG	
UN Number:	UN 1950
UN Proper Shipping Name: Transport Hazard Class(es)	Aerosols, flammable
Class:	2.1
	2.1
Label(s):	
EmS No.:	F-D, S-U
Packing Group:	_
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

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

Chemical Identity	OSHA hazard(s)
Benzene	Flammability
	Cancer
	Aspiration
	Eye
	Blood
	Skin
	respiratory tract irritation
	Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

2-Propanone ACETONE BENZENE, METHYL-UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY RCRA HAZARDOUS WASTE NO. D001 HEXANE Hexane CYCLOHEXANE BENZENE, HEXAHYDRO-ETHYLBENZENE BENZENE

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

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

Chemical Identity	<u>% by weight</u>	
Benzene, methyl-	1.0%	
Isopropyl Alcohol	1.0%	

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.

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 Naphtha (petroleum), hydrotreated light Benzene, methyl-Isopropyl Alcohol Carbon dioxide Heptane Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-

US. Massachusetts RTK - Substance List Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> 2-Propanone Naphtha (petroleum), hydrotreated light Benzene, methyl-Isopropyl Alcohol Carbon dioxide Heptane

US. Rhode Island RTK

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

International regulations

Montreal protocol

2-Propanone

Version: 1.0 Revision Date: 06/15/2021 Item 87A

Stockholm convention 2-Propanone

Rotterdam convention 2-Propanone

Kyoto protocol

Inventory Status: Australia AICS

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

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

Issue Date:	06/15/2021
Revision Information:	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.