

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

Item 87A

1. Identification

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

Other means of identification

SDS number: RE1000041032

Recommended restrictions

Restrictions on 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

Category 1

Health Hazards

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2
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 -

Category 2

Repeated Exposure

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)-	5969-27-5	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/effects, acute and delayed

Symptoms:

No data available.

Hazards:

No data available.

Indication of immediate medical 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) extinguishing 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 and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment for fire-fighters:

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 measures

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**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.

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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

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

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanone	STEL	1,000 ppm	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	1,000 ppm	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	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	US, NIOSH Pocket Guide to Chemical Hazards, as amended
		560 mg/m ³	

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Naphtha (petroleum), hydrocracked light	REL	100 ppm	400 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	400 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	400 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Benzene, methyl-	STEL	150 ppm	560 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m ³	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	20 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/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
Isopropyl Alcohol	STEL	500 ppm	1,225 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US, ACGIH Threshold Limit Values, as amended
	REL	400 ppm	980 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	400 ppm	980 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	980 mg/m ³	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/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbon disulfide	TWA	3,000 ppm		US, ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm		US, ACGIH Threshold Limit Values, as amended
	STEL	30,090 ppm	54,000 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	5,000 ppm	9,000 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	5,000 ppm	9,000 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	10,000 ppm	18,000 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	30,000 ppm	54,000 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Heptane	TWA	400 ppm	1,600 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	85 ppm	350 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	500 ppm	2,000 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	500 ppm	2,000 mg/m ³	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
	Cell _T	440 ppm	1,800 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
Cyclohexane, methyl-	REL	500 ppm	2,000 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	1,600 mg/m ³	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/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
Hexane	TWA	50 ppm	180 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	500 ppm	1,800 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	50 ppm	180 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm		US, ACGIH Threshold Limit Values, as amended
	TWA	100 ppm		US, ACGIH Threshold Limit Values, as amended
	TWA	300 ppm	1,050 mg/m ³	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	300 ppm	1,050 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended

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Benzene, ethyl-	PEL	300 ppm	1,050 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m ³	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m ³	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m ³	US, OSHA Table Z-1A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m ³	US, OSHA Table Z-1A (29 CFR 1910.1000), as amended
	TWA	20 ppm		US, ACGIH Threshold Limit Values, as amended
	REL	0.1 ppm		US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	1 ppm		US, OSHA Table Z-1A (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-1A (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 hydroxyl; Sampling time: End of shift.)	0.3 mg/L (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene; Sampling time: Prior to next shift of work week.)	0.02 mg/L (Blood)	ACGIH BEL
Isocrotonal Alcohol (acetone; Sampling time: End of shift at end of work week.)	40 mg/L (Urine)	ACGIH BEL
Benzene, ethyl- (Sum of metabolic acid and phenylglyoxylic acid; Sampling time: End of shift.)	0.15 g/L (Creatinine in urine)	ACGIH BEL
Hexanic (2,5-Hexanedione, without hydroxyl; Sampling time: End of shift.)	0.5 mg/L (Urine)	ACGIH BEL
Benzene (S-Phenylthiocarbonyl acid; Sampling time: End of shift.)	25 µg/L (Creatinine in urine)	ACGIH BEL
Benzene (O-Mucronic acid; Sampling time: End of shift.)	500 µg/L (Creatinine in urine)	ACGIH BEL

Exposure guidelines

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 Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin 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.

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 eating and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

liquid

Physical state:

Form:

Color:

odor:

Odor Threshold:

pH:

Freezing point:

Boiling Point:

Flash Point:

Evaporation Rate:

Flammability (solid, gas):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density (air=1):

Density:

Relative density:

Solubility in Water:

Solubility (other):

Partition coefficient (n-octanol/water).

Self Ignition Temperature:

Decomposition Temperature:

Kinematic viscosity:

Dynamic viscosity:

Explosive properties:

Oxidizing properties:

10. Stability and reactivity

Reactivity:	No data available.
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Chemical Stability: Material is stable under normal conditions

Possibility of hazardous	No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition No data available.

11. Toxicological Information

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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
Naphtha (petroleum), hydrotreated light
Benzene, methyl-
Isopropyl Alcohol
Heptane
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
Skin Corrosion/Irritation
Product: No data available.

NOAEL (Rat/Male), Oral, 13 Weeks): 10,000 ppm(m) Oral 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 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
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

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

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

Components:

2-Propanone
Irritating,
Rabbit, 24 hrs. Minimum grade of severe eye irritant
Naphtha (petroleum),
hydrorefined 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
Naphtha (petroleum),
hydrorefined light
Benzene, methyl-
Isopropyl Alcohol
Heptane
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
Skin sensitization, in vivo (Guinea pig): Non sensitising
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
Product: No data available.

Reproductive Toxicity

Product:

No data available.

Components:

Benzene, methyl-

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Components:

2-Propanone

Benzene, methyl-

Isopropyl Alcohol

Heptane

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 - Repeated Exposure

Product:

No data available.

Components:

Benzene, methyl-

Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product:

No data available.

Components:

Naphtha (petroleum),

hydrofired 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 (Onchornomus mykiss, 96 h): 5,540 mg/l Experimental result, Key study

Naphtha (petroleum),
hydrofired light

LC 50 (96 h): 8.41 mg/l Experimental result, Key study

Benzene, methyl-

LC 50 (Onchornomus mykiss, 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 µg/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

Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Benzene, 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 study LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study
Isopropyl Alcohol	
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.074 mg/l Experimental result, Key study

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-

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-

LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study
NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study
NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l CSAR CSAR, Weight of Evidence study

Toxicity to Aquatic Plants

Product:

No data available.

Persistence 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

BOD/COD Ratio

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

No data available.

Components:

2-Propanone

Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment
Experimental result, Not specified

Naphtia (petroleum),
hydrotreated light

Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by
calculation, Key study

Benzene, 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

Partition Coefficient n-octanol / water (log Kow)

No data available.

Components:

Naphtia (petroleum),
hydrotreated light

Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study

Cyclohexene, 1-methyl-4-
(1-methylethenyl)-, (4R)-

Log Kow: 4.34 - 4.46 25 °C No Experimental result, Supporting study

Mobility in soil:

No data available.

Components:

2-Propanone

Naphtia (petroleum), hydrotreated light

Benzene, methyl-

Isopropyl Alcohol

Carbon dioxide

Heptane

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-

No data available.
No data available.
No data available.
No data available.
No data available.
No data available.
No data available.

Other adverse effects: Toxic 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 1950

UN Proper Shipping Name:
Transport Hazard Class(es)

Aerosols, flammable

Class:

2.1

Label(s):

EmS No.:

Packing Group:
Special precautions for user:

Not regulated.

IATA

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):

Class: 2.1

Label(s):
Packing Group: Not regulated
Special precautions for user:
Other information:

Passenger and cargo aircraft: Allowed, 203
Cargo aircraft only: Allowed, 203

IMDG

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):

Class: 2.1

Label(s):
EMS No.: F-D, S-U
Packing Group: Not regulated
Special precautions for user:

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

Benzene

OSHA hazard(s)

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

Superfund Amendments and Reauthorization Act of 1986 (SARA) Item 87A

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	% by weight
Benzene, methyl-	1.0%
Isopropyl Alcohol	1.0%

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

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

US State Regulations

U.S. 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.

U.S. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

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

U.S. Massachusetts RTK - Substance List

Chemical Identity

Benzene

U.S. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanone
Naphtha (petroleum), hydrotreated light
Benzene, methyl-
Isopropyl Alcohol
Carbon dioxide
Heptane

U.S. Rhode Island RTK

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

International regulations

Montreal protocol

2-Propanone

Stockholm convention
2-Propanone

Rotterdam convention
2-Propanone

Kyoto protocol

Inventory Status:

Australia AICS

Canada DSL Inventory List

Canada NDSL Inventory

Ontario Inventory

China Inv. Existing Chemical Substances

Japan (ENCS) List

Japan ISHL Listing

Japan Pharmacopoeia Listing

Korea Existing Chemicals Inv. (KECI)

Mexico INSA

New Zealand Inventory of Chemicals

Philippines PICCS

Taiwan Chemical Substance Inventory

US TSCA Inventory

ENECS, ELINCS or NLP

On or in compliance with the inventory

On or in compliance with the inventory

Not in compliance with the inventory.

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

Not in compliance with the inventory.

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

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.