

1. Product and Company Identification

PRODUCT NUMBER: 1299 **COMPANY PHONE:** 1-800-241-8180

PRODUCT NAME: BRAKE OUT EMERGENCY TELEPHONE: 1-800-241-8180

PRODUCT DESCRIPTION: Aerosol Non-chlorinated Brake Parts
Cleaner INFOTRAC: 1-800-535-5053

COMPANY INFORMATION: PRO CHEM, INC.

1475 Bluegrass Lakes Parkway

Alpharetta, GA 30004

2. Hazards Identification

GHS CLASSIFICATION:

Physical Hazards: Flammable Aerosols: Category 1

Health Hazards: Serious Eye Damage/Eye Irritation: Category 2A

Sensitization Sensitizer: Category 1

Carcinogenicity: Category 2

Specific Target Organ Toxicity - Single Exposure: Category 3 (Narcotic

Effects.)

Environmental Hazards: Acute Hazards to the Aquatic Environment:

Category 3

HAZARD STATEMENTS:

Extremely flammable aerosol. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. Harmful to aquatic life.

SIGNAL

WORD:

DANGER

SYMBOL:

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. 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. 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. 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 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.

HAZARDS NOT OTHERWISE SPECIFIED:

None.

3. Composition / Information on Ingredients			
Chemical Name	CAS	Concentration % by Weight	
2-Propanone	67-64-1	50 - <100%	
Acetic acid, methyl ester	79-20-9	10 - <20%	
Carbon Dioxide	124-38-9	5 - <10%	
Benzene, dimethyl-	1330-20-7	1 - <5%	
Heptane, branched, cyclic and linear	426260-76-6	1 - <2.5%	
Heptane	142-82-5	1 - <5%	
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - <5%	
Solvent naphtha (petroleum), light aliph.	64742-89-8	1 - <5%	
Benzene, ethyl-	100-41-4	1 - <5%	

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

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

SKIN: 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.

INHALATION:

Move to fresh air.

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.

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The exact concentration has been withheld as a trade secret.

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: Symptoms may be delayed.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not use water iet 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.

SPECIFIC FIRE-FIGHTING METHODS:

No data available

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA.

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.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

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.

MATERIALS AND METHODS FOR CLEANUP:

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

SAFE HANDLING:

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 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. Do not pierce or burn, even after use. Avoid contact with eyes, skin and clothing.

Contact Avoidance Measures: No data available.

Technical Measures (e.g. Local and general ventilation): No data available.

SAFE STORAGE AND INCOMPATIBILITIES:

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use.

Safe Packaging Materials: No data available. Storage Temperature: No data available.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS **Occupational Exposure Limits: Chemical Identity Exposure Limit Values** Source Type US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended 2-Propanone STEL 1,000 ppm 24,000 mg/m³ 24,000 mg/m³ US. OSHA Table Z-1 Limits for Air Contaminants PEL 1,000 ppm (29 CFR 1910.1000), as amended US. ACGIH Threshold Limit Values, as amended **TWA** 250 ppm 1,800 mg/m³ US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended **TWA** 750 ppm STEL 500 ppm US. ACGIH Threshold Limit Values, as amended US. NIOSH: Pocket Guide to Chemical Hazards, as amended REL 250 ppm 590 mg/m³ US. NIOSH: Pocket Guide to Chemical Hazards, 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. OSHA Table Z-1 Limits for Air Contaminants PEL 200 ppm 610 mg/m³ (29 CFR 1910.1000), as amended US. ACGIH Threshold Limit Values, as amended STEL 250 ppm US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended **TWA** 200 ppm 610 mg/m³

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	STEL	250 ppm	760 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, 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 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
	PEL	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
Benzene, dimethyl-	TWA	100 ppm	435 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, 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	150 ppm	655 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	150 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	150 ppm	655 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
Naphtha (petroleum), hydrotreated 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
	PEL	100 ppm	400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Heptane (CAS 142-82-5)	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
	PEL	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
	Ceil_Time	440 ppm	1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, ethyl-	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-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Cyclohexane, methyl-	PEL	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
Benzene, methyl-	STEL	150 ppm	560 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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		REL	100 ppm	375 mg/m ³	US. NIOSH: Pocket Guide to C	hemical Hazards, as amended
		TWA	100 ppm	375 mg/m ³	US. OSHA Table Z-1-A (29 CF	R 1910.1000), as amended
		Ceiling	300 ppm		US. OSHA Table Z-1-A (29 CF	R 1910.1000), as amended
		TWA	20 ppm		US. ACGIH Threshold Limit Va	lues, as amended
		TWA	200 ppm		US. OSHA Table Z-2 (29 CFR	1910.1000), as amended
		MAX.	500 ppm		US. OSHA Table Z-2 (29 CFR	1910.1000), as amended
		CONC STEL	150 ppm	560mg/m ³	US. NIOSH: Pocket Guide to C	hemical Hazards, as amended
	Hexane	TWA	50 ppm	180 mg/m ³	US. OSHA Table Z-1-A (29 CF	R 1910.1000), as amended
		PEL	500 ppm	1,800 mg/m ³	US. OSHA Table Z-1 Limits for	
		REL	50 ppm	180 mg/m ³	(29 CFR 1910.1000), as amend US. NIOSH: Pocket Guide to C	
		TWA	50 ppm		US. ACGIH Threshold Limit Va	lues, as amended
	Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Va	lues, as amended
		TWA	300 ppm	1,050 mg/m ³	US. OSHA Table Z-1-A (29 CF	R 1910.1000), as amended
		REL	300 ppm	1,050 mg/m ³	US. NIOSH: Pocket Guide to C	hemical Hazards, as amended
		PEL	300 ppm	1,050 mg/m ³	US. OSHA Table Z-1 Limits for (29 CFR 1910.1000), as amend	
	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-	TWA	20 ppm		US. ACGIH Threshold Limit Va	lues, as amended
	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-	TWA	20 ppm		US. ACGIH Threshold Limit Va	lues, as amended
	Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to C	hemical Hazards, as amended
		TWA	1 ppm		US. OSHA Table Z-1-A (29 CF	R 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 Va	lues, as amended
		STEL	2.5 ppm		US. ACGIH Threshold Limit Va	lues, as amended
		STEL	5 ppm		US. OSHA Specifically Regulat	
		OSHA_AC T	0.5 ppm		(29 CFR 1910.1001-1053), as a US. OSHA Specifically Regulat (29 CFR 1910.1001-1053), as a	ed Substances
		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 CF	R 1910.1000), as amended
		TWA	1 ppm		US. OSHA Specifically Regulat (29 CFR 1910.1001-1053), as a	
		STEL	1 ppm		US. NIOSH: Pocket Guide to C	hemical Hazards, as amended
BIOLOGIC	CAL LIMIT VALUE:				Evnosura Limit Values	Source
-	Chemical Identity 2-Propagone (acetone: Sam	nling time: En	d of shift \		25 mg/l (Urine)	Source ACGIH BEL
	2-Propanone (acetone: Sam Benzene, dimethyl- (Methylh Benzene, ethyl- (Sum of mar time: End of shift.)	ippuric acids:	Sampling time: Er		25 mg/l (Urine) 1.5 g/g (Creatinine in urine) 0.15 g/g (Creatinine in urine)	ACGIH BEL ACGIH BEL ACGIH BEL
	Benzene, methyl- (toluene: S				0.03 mg/l (Urine)	ACGIH BEL
	Benzene, methyl- (o-Cresol,				0.3 mg/g (Creatinine in urine)	ACGIH BEL
	Benzene, methyl- (toluene: S				0.02 mg/l (Blood)	ACCILL BEL
	Hexane (2,5-Hexanedion, wi				0.5 mg/l (Urine)	ACGIH BEL ACGIH BEL
	Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.) Benzene (t,t-Muconic acid: Sampling time: End of shift.)			əiiit. <i>j</i>	25 μg/g (Creatinine in urine) 500 μg/g (Creatinine in urine)	ACGIH BEL

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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: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. Hand Protection: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

General Hygiene Considerations: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical & Chemical Properties			
Physical State:	Liquid.	Flammability (solid/gas):	No data available.
Form:	Spray Aerosol.	Explosive Limit – lower (%):	Estimated 13.2% (V)
Color:	No data available.	Explosive Limit – upper (%):	Estimated 2.6% (V)
Odor:	No data available.	Vapor Pressure:	4,826 - 6,205 hPa (20°C)
Odor Threshold:	No data available.	Vapor Density (air=1) :	No data available.
pH:	No data available.	Relative Density:	No data available.
Freezing Point:	No data available.	Solubility (water):	No data available.
Boiling Point:	Estimated 46.17°C	Solubility (other):	No data available.
Partition Coeff (n-octanol/water):	No data available.	Self-Ignition Temperature:	No data available.
Flash Point:	-14.6°C	Decomposition Temperature:	No data available.
Kinematic Viscosity:	No data available.	Evaporation Rate:	No data available.
Dynamic Viscosity:	No data available.	Oxidizing Properties:	No data available.
Density:	No data available.	Explosive Properties:	No data available.

10. Stability & Reactivity Information

REACTIVITY:

No data available.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No data available.

INCOMPATIBLE MATERIALS:

No data available.

CONDITIONS TO AVOID:

Avoid heat or contamination.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Eyes: No data available. Skin: No data available. Inhalation: No data available. Ingestion: No data available.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Eyes: No data available. Skin: No data available. Inhalation: No data available. Ingestion: No data available.

ACUTE TOXICITY (list all possible routes of exposure):

Oral Product: Not classified for acute toxicity based on available data.

Dermal Product: ATEmix: 45,772.48 mg/kg Inhalation Product: ATEmix: 509.15 mg/l Vapour

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Components 2-Propanone	NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key stud
2-i Topanone	NOALE (Nationale), Oral, 10 Weeks). 10,000 ppm(m) Oral Experimental result, Ney state
Acetic acid, methyl ester	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 Experimental result, Key study
Benzene, dimethyl-	NOAEL (Rat(Female), Oral, 90 d): 150 mg/kg Oral Experimental result, Key study
Heptane	NOAEL (Rat(Male), Inhalation): 12,470 mg/m³ Inhalation Experimental result, Key study
Naphtha (petroleum), hydrotreated light	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
Solvent naphtha (petroleum), light aliph	Inhalation Experimental result, Key study
	NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal Experimental result, Key study
	NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
Benzene, ethyl-	NOAEL (Mouse(Female, Male), Inhalation, 104 Weeks): 75 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 28 d): 75 mg/kg Oral Experimental result, Key study

SKI

Product: No data available.

COMPONENTS	TEST RESULTS
2-Propanone	in vivo (Rabbit): Not irritant
Acetic acid, methyl ester	in vivo (Rabbit): Not irritant
Benzene, dimethyl-	in vivo (Rabbit): Moderate irritant estimated irritating
Heptane, branched, cyclic and linear	Assessment irritating
Heptane	in vivo (Rabbit): Irritating
Naphtha (petroleum), hydrotreated light	Assessment Non-Irritating. In vitro (Human): Not corrosive
Solvent naphtha (petroleum), light aliph.	Assessment Non-Irritating

SERIOUS EYE DAMAGE/IRRITATION:

Product: No data available.

COMPONENTS	TEST RESULTS
2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant
Acetic acid, methyl ester	Rabbit: Irritating
Benzene, dimethyl-	Rabbit, 1 hrs: Slightly irritating (Not Classified)
Heptane	Rabbit, 24 - 72 hrs: Not irritating
Naphtha (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
Solvent naphtha (petroleum), light aliph.	Rabbit: Not irritating

RESPIRATORY OR SKIN SENSITIZATION:

Product: No data available.

COMPONENTS	TEST RESULTS
2-Propanone	Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Heptane	Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Naphtha (petroleum), hydrotreated light	Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Solvent naphtha (petroleum), light aliph.	Skin sensitization:, in vivo (Guinea pig): Non sensitizing
Benzene, dimethyl-	Skin sensitization:, in vivo (Human): Non sensitizing

CARCINOGENICITY:

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Benzene, ethylUS. National Toxicology Program (NTP) Report on Carcinogenic to humans.

Benzene, ethyl
Benzene, ethyl
Overall evaluation: 2B. Possibly carcinogenic to humans.

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: No data available.

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SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Product: No data available.

Components:

2-Propanone Inhalation – vapor: Narcotic effect. – Category with narcotic effects.

Heptane Narcotic effect. – Category 3 with narcotic effects.

SPECIFIC TARGET ORGAN TOXICITY (repeated exposures):

Product: No data available. Components:

Benzene, ethyl-

e, ethyl- Category 2

Target Organs: Specific Target Organ Toxicity – Single Exposure: Narcotic Effect.

ASPIRATION HAZARD:

Product: No data available.

Components:

Heptane, branched, cyclic and linear
Heptane
May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), light aliph.
Benzene, ethylMay 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	Test Results
2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, 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
Heptane	Rabbit, 1 hrs: Slightly irritating (Not Classified)
Naphtha (petroleum), hydrotreated light	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Benzene, ethyl-	LC 50 (Fathead minnow (Pimephales promelas), 96 h); 38.9 - 62.83 mg/l Mortality

AQUATIC INVERTEBRATES:

Product: No data available.

Components	Test Results
2-Propanone	LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
Acetic acid, methyl ester	EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study
Heptane	EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph.	EC 50 (Daphnia magna, 48 h): 32 mg/l Experimental result, Supporting study
Benzene, ethyl-	LC 50 (Water flea (Daphnia magna), 24 h): 57 - 100 mg/l Mortality

CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT:

Fish:

Product: No data available.

Components	lest results
Heptane	NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
Naphtha (petroleum), hydrotreated light	NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

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AQUATIC INVERTEBRATES:

Product: No data available.

Components	Test Results
2-Propanone	LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
	NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
Heptane, branched, cyclic and linear	NOEC : < 1 mg/l estimation
Heptane	NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of substances
	(category approach), Key study
	EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of substances
	(category approach), Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study
Benzene, ethyl-	LC 50 (Ceriodaphnia dubia): 3.2 mg/l Other, Key study
	NOAEL (Ceriodaphnia dubia): 1 mg/l Other, Key study

TOXICITY TO AQUATIC PLANTS:

Product: No data available.

PERSISTENCE AND DEGRADABILITY:

Biodegradation Product: No data available.

Components	Test Results
2-Propanone	90.9% (28 d) Detected in water. Experimental result, Key study
Acetic acid, methyl ester	70% Detected in water. Experimental result, Key study
Benzene, dimethyl-	87.8% Detected in water. Read-across from supporting substance (structural
•	analogue or surrogate), Key study

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Heptane	70% Detected in water. Experimental result, Key study
Naphtha (petroleum), hydrotreated light	90.35% (28 d) Detected in water. Experimental result, Supporting study
Solvent naphtha (petroleum), light aliph.	90.35 % (28 d) Detected in water. Experimental result, Supporting study
Benzene, ethyl-	2.7% Detected in water. Other, Supporting study
•	70 - 80% (28 d) Detected in water. Experimental result. Key study

BOD/COD RATIO:

Product: No data available.

BIOACCUMULATIVE POTENTIAL: BIOCONCENTRATION FACTOR (BCF):

Product: No data available.

Components	Test Results	
2-Propanone	Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental	
	result, Not specified	
Benzene, dimethyl-	Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.6 - < 21.6 Aquatic sediment	
	Experimental result, Key study	
Heptane	Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study	
Heptane	70% Detected in water. Experimental result, Key study	
Naphtha (petroleum), hydrotreated light	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation,	
, , , , , , , , , , , , , , , , , , , ,	Key study	
Solvent naphtha (petroleum), light aliph.	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation,	
	Key study	
Benzene, ethyl-	Carassius auratus, Bioconcentration Factor (BCF): 15.5 Aquatic sediment Other,	
	Supporting study	

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

Product: No data available.

Components	Test Results
Benzene, dimethyl-	Log Kow: 2.77 - 3.15 Not specified, Not specified
Naphtha (petroleum), hydrotreated light	Log Kow: > 2.4 - < 5.7 23°C Yes Experimental result, Key study
Benzene, ethyl-	Log Kow: 3.13 - 3.14 No Other, Supporting study

MOBILITY IN SOIL:

No data available.

Components

No data available. 2-Propanone Acetic acid, methyl ester No data available. No data available. Carbon dioxide Benzene, dimethyl-No data available. Heptane, branched, cyclic and linear No data available. No data available. Naphtha (petroleum), hydrotreated light No data available. Solvent naphtha (petroleum), light aliph. No data available. Benzene, ethyl-No data available.

OTHER ADVERSE EFFECTS:

Harmful to aquatic organisms.

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:

Discharge, treatment, or disposal may be subject to national, state or local laws.

CONTAMINATED PACKAGING:

No data available.

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14. Transportation Information

DOT: UN Number: UN1950.

UN Proper Shipping Name: Aerosols, flammable.

Transport Hazard Class(es)

Class: 2.1.
Label(s): EmS No:
Packing Group: ||

Special Precautions for User: Not regulated.

IATA: UN Number: UN1950.

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

IMDG: UN Number: UN1950

UN Proper Shipping Name: Aerosols, flammable.

Transport Hazard Class(es)

Class: 2 Label(s): -EmS No: 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

ACETONE

RCRA HAZARDOUS WASTE NO. D001

Acetic acid, methyl ester XYLENE (MIXED)

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

ETHYLBENZENE BENZENE, METHYL-HEXANE

CYCLOHEXANE BENZENE, HEXAHYDRO-

BENZENE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

HAZARD CATEGORIES:

Flammable aerosol, Serious Eye Damage/Eye Irritation, Skin sensitizer, Carcinogenicity, Specific

Target Organ Toxicity - Single 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

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 weightBenzene, dimethyl1.0%Benzene, ethyl-0.1%

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)

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US STATE REGULATIONS:

US. California Proposition 65

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

US. New Jersey Worker and Community Right-to-Know Act:

Chemical Identity:

2-Propanone

Acetic acid, methyl ester

Carbon dioxide

Benzene, dimethyl-

Naphtha (petroleum), hydrotreated light

Heptane

Benzene, ethyl-

US. Massachusetts RTK - Substance List:

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

US. Pennsylvania RTK - Hazardous Substances:

Chemical Identity:

2-Propanone

Acetic acid, methyl ester

Carbon dioxide

Benzene, dimethyl-

Naphtha (petroleum), hydrotreated light

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:

Montreal protocol

2-Propanone

Rotterdam Convention:

2-Propanone

Acetic acid, methyl ester

New Zealand Inventory of Chemicals

Kyoto Protocol:

INVENTORY STATUS:

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

16. Other Information

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

On or in compliance with the inventory

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