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6.3. Methods and material for containment and cleaning up

As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away.

Stay upwind.

Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Keep out of low areas.

Ventilate closed spaces before entering.

7. Handling and storage

7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong oxidizing agents

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000067-64-1	2-Propanone	OSHA	TWA 1000 ppm (2400 mg/m ³) STEL 2400 mg/m ³
		ACGIH	TWA: 250 ppm STEL: 500 ppm Skin
		NIOSH	250 ppm (590 mg/m ³) TWA
		Supplier	No Established Limit

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0000071-36-3	Butan-1-ol	OSHA	TWA 100 ppm (300 mg/m3)
		ACGIH	TWA: 15 ppm Ceiling: 30 ppm
		NIOSH	C 50 ppm (150 mg/m3) [skin]
		Supplier	No Established Limit
0000074-98-6	Propane	OSHA	TWA 1000 ppm (1800 mg/m3)
		ACGIH	No Established Limit
		NIOSH	TWA 1000 ppm (1800 mg/m3)
		Supplier	No Established Limit
0000075-28-5	Propane, 2-methyl-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000106-97-8	Butane	OSHA	No Established Limit
		ACGIH	TWA: 600 ppm STEL: 750 ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000107-87-9	Pentan-2-one	OSHA	TWA 200 ppm (700 mg/m3)
		ACGIH	TWA: 150 ppm STEL: 250 ppm
		NIOSH	TWA 150 ppm (530 mg/m3)
		Supplier	No Established Limit
0000110-12-3	5-Methyl-2-hexanone	OSHA	TWA 100 ppm (475 mg/m3)
		ACGIH	TWA: 50 ppm
		NIOSH	TWA 50 ppm (240 mg/m3)
		Supplier	No Established Limit
0000110-19-0	iso-Butyl acetate.	OSHA	TWA 150 ppm (700 mg/m3)
		ACGIH	TWA: 150 ppm
		NIOSH	TWA 150 ppm (700 mg/m3)
		Supplier	No Established Limit
0000110-43-0	Heptan-2-one	OSHA	TWA 100 ppm (465 mg/m3)
		ACGIH	TWA: 50 ppm
		NIOSH	TWA 100 ppm (465 mg/m3)
		Supplier	No Established Limit
0000123-42-2	4-Hydroxy-4-Methylpentan-2-one	OSHA	TWA 50 ppm (240 mg/m3)
		ACGIH	TWA: 50 ppm
		NIOSH	TWA 50 ppm (240 mg/m3)
		Supplier	No Established Limit
0000123-86-4	N-Butyl Acetate	OSHA	TWA 150 ppm (710 mg/m3)
		ACGIH	TWA: 20 ppmS
		NIOSH	TWA 150 ppm (710 mg/m3) ST 200 ppm (950 mg/m3)
		Supplier	No Established Limit

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Carcinogen Data

CAS No.	Ingredient	Source	Value
000067-64-1	2-Propanone	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000071-36-3	Butan-1-ol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000074-98-6	Propane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000075-28-5	Propane, 2-methyl-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000106-97-8	Butane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000107-87-9	Pentan-2-one	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000110-12-3	5-Methyl-2-hexanone	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000110-19-0	iso-Butyl acetate.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000110-43-0	Heptan-2-one	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000123-42-2	4-Hydroxy-4-Methylpentan-2-one	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
000123-86-4	N-Butyl Acetate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.
Skin	Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Olive Drab Liquid/Gas
Odor	Paint
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	Not Measured
Evaporation rate (Ether = 1)	Slower than ether
Flammability (solid, gas)	Flam. Aerosol 1; H222 Extremely flammable aerosol.
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.1% Upper Explosive Limit: 12.8%
Vapor pressure (Pa)	Not Measured
Vapor Density	>1 (Heavier than Air)
Specific Gravity	0.797 (6.65 lb/gal)
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	52.5% by wt 4.55 lb/gal ,545 g/L (less water and exempt solvents)

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Maximum Incremental Reactivity	0.66
HAPS (lbs/gal)	0.00 lbs/gal
HAPS (lbs/gal of Solids)	0.00 lbs/gal
HAPS (lbs/lb of Solids)	0.00 lbs/lb

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid contact with open flame, sparks or hot surfaces.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon Monoxide and Carbon Dioxide

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
2-Propanone - (67-64-1)	2,000.00, Rat - Category: 4	2,000.00, Rabbit - Category: 4	76.00, Rat - Category: NA	No data available	No data available
Propane - (74-98-6)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
N-Butyl Acetate - (123-86-4)	10,700.00, Rat - Category: NA	17,600.00, Rabbit - Category: NA	No data available	No data available	No data available
Butane - (106-97-8)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Propane, 2-methyl- - (75-28-5)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
5-Methyl-2-hexanone - (110-12-3)	3,200.00, Rat - Category: 5	8,110.00, Rabbit - Category: NA	No data available	No data available	No data available
Butan-1-ol - (71-36-3)	2,292.00, Rat - Category: 5	3,430.00, Rabbit - Category: 5	No data available	No data available	8,000.00, Rat - Category: 4
Pentan-2-one - (107-87-9)	1,600.00, Rat - Category: 4	6,500.00, Rabbit - Category: NA	No data available	No data available	No data available
iso-Butyl acetate. - (110-19-0)	13,400.00, Rat - Category: NA	17,400.00, Rabbit - Category: NA	No data available	No data available	No data available
Heptan-2-one - (110-43-0)	1,670.00, Rat - Category: 4	12,600.00, Rabbit - Category: NA	No data available	No data available	No data available
4-Hydroxy-4-Methylpentan-2-one - (123-42-2)	2,520.00, Rat - Category: 5	13,500.00, Rabbit - Category: NA	No data available	No data available	1,500.00, Rat - Category: NA

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	2	Causes serious eye irritation.

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Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
2-Propanone - (67-64-1)	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr), Ulva pertusa
Propane - (74-98-6)	Not Available	Not Available	Not Available
N-Butyl Acetate - (123-86-4)	18.00, Pimephales promelas	32.00, Artemia salina	674.70 (72 hr), Scenedesmus subspicatus
Butane - (106-97-8)	6.00, Fish (Piscis)	Not Available	Not Available
Propane, 2-methyl- - (75-28-5)	Not Available	Not Available	Not Available
5-Methyl-2-hexanone - (110-12-3)	159.00, Pimephales promelas	560.00, Daphnia magna	920.00 (72 hr), Chlorococcales
Butan-1-ol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
Pentan-2-one - (107-87-9)	1,240.00, Pimephales promelas	Not Available	0.00 (96 hr),
iso-Butyl acetate. - (110-19-0)	101.00, Leuciscus idus	250.00, Daphnia magna	600.00 (24 hr), Chlorococcales
Heptan-2-one - (110-43-0)	131.00, Pimephales promelas	Not Available	Not Available
4-Hydroxy-4-Methylpentan-2-one - (123-42-2)	420.00, Lepomis macrochirus	9,000.00, Daphnia magna	Not Available

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12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosols, Flammable	Aerosols, Flammable	Aerosols, Flammable
14.3. Transport hazard class(es)	2.1 (LTD QTY)	2.1 (LTD QTY)	2.1
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			

IMDG Marine Pollutant: No

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14.6. Special precautions for user

No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification D2B

US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: Yes

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

2-Propanone (5,000.00)

Butan-1-ol (5,000.00)

iso-Butyl acetate. (5,000.00)

N-Butyl Acetate (5,000.00)

EPCRA 302 Extremely Hazardous :

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:

Butan-1-ol

Proposition 65 - Carcinogens (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):

(No Product Ingredients Listed)

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N.J. RTK Substances (>1%) :

4-Hydroxy-4-Methylpentan-2-one
5-Methyl-2-hexanone
2-Propanone
Butan-1-ol
Butane
Heptan-2-one
iso-Butyl acetate.
N-Butyl Acetate
Pentan-2-one
Propane
Propane, 2-methyl-

Penn RTK Substances (>1%) :

4-Hydroxy-4-Methylpentan-2-one
5-Methyl-2-hexanone
2-Propanone
Butan-1-ol
Butane
Heptan-2-one
iso-Butyl acetate.
N-Butyl Acetate
Pentan-2-one
Propane
Propane, 2-methyl-

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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The full text of the phrases appearing in section 3 is:

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

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