	SAFETY DATA SHEET Nova Molecular Technologies, Inc.	
	OMNI 95	Date Issued: 5 May 2015
		SDS No: NMTXXXXXXX


1. PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: ONMI 95	24 HR. EMERGENCY TELEPHONE NUMBERS
GENERAL USE: Industrial Solvent	Emergency Phone: 800-445-6682
GENERIC NAME: mixture	For emergency, spill, leak, fire, exposure or accident, call: CHEMTREC: 1-800-424-9300 Outside of the United States, call: 703-527-3887 (collect calls accepted)
DISTRIBUTOR:	
Nova Molecular Technologies, Inc.	
208 South Magnolia Sumter, SC 29150	

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Classification of the substance or mixture	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), H370 Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Aspiration hazard (Category 1), H304 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - repeated exposure, Oral (Category 2), Nervous system, H373	
For the full text of the H-Statements mentioned in this Section, see Section 16.	

GHS LABEL	
SIGNAL WORD:	Danger
HAZARD STATEMENTS	
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.

H370	May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
	Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Acetone	15 - 40%	67-64-1
Toluene	15 - 40%	108-88-3
Methyl Ethyl Ketone	10 - 40%	78-93-3
Xylene	10 - 40%	1330-20-7
Ethyl Acetate	10 - 35%	141-78-6
Methyl Amyl Ketone	0 - 40%	110-43-0
Methyl Propyl Ketone	0 - 40%	107-87-9

Cyclohexane	0 - 25%	110-82-7
Hexane	0 - 25%	110-54-3
Methyl Isobutyl Ketone	0 - 25%	108-10-1
Cyclohexanone	0 - 20%	108-94-1
Diisobutyl Ketone	0 - 20%	108-83-8
Heptane	0 - 20%	142-82-5
IP Acetate	0 - 20%	108-21-4
Isobutyl Acetate	0 - 20%	110-19-0
Isopropanol	0 - 20%	67-63-0
Lactol	0 - 20%	64742-89-8
Methanol	0 - 20%	67-56-1
N-Butyl Acetate	0 - 20%	123-86-4
N-Propyl Acetate	0 - 20%	109-60-4
Pentane	0 - 20%	110-54-3
Solvent Naptha (petroleum) Heavy Aromatic (Aromatic 150)	0 - 20%	64742-94-5
Solvent Naptha, Light Aromatic (Aromatic 100)	0 - 20%	64742-95-6
Ethanol	0 - 15%	64-17-5
N-Methyl-2-Pyrrolidone	0 - 15%	872-50-4
Glycol Ether EB	0 - 10%	111-76-2
Glycol Ether EB Acetate	0 - 10%	111-76-2
Isobutyl Isobutyrate	0 - 10%	97-85-8
Mineral Spirits	0 - 10%	68551-17-7
N-Butanol	0 - 10%	71-36-3
N-Propanol	0 - 10%	71-23-8
Tetrahydrofuran	0 - 10%	109-99-9
VM & P Naphtha	0 - 10%	1072-35-9

4. FIRST AID MEASURES

EYES:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
SKIN:	Wash off with soap and plenty of water. Consult a physician.
INGESTION:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
INHALATION:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
NOTES TO PHYSICIAN:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical	No data available

attention and special treatment needed	
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5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Reference to other sections	For disposal see section 13.
SPECIAL PROTECTIVE EQUIPMENT: EMERGENCY & NON-EMERGENCY RESPONDERS	Refer to Section 13 of this SDS for appropriate exposure controls and personal protective equipment (PPE).

7. HANDLING AND STORAGE

GENERAL PROCEDURES:	Handle in accordance with good industrial hygiene and safety practices. These practices include but are not limited to avoiding unnecessary exposure and prompt removal of material from eyes, skin and clothing. Do not breathe material. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. If needed, take first aid actions as indicated in Section 4 of this SDS.
HANDLING:	Use only with adequate ventilation. Wear appropriate personal protective equipment and use exposure controls as indicated in Section 8 of this SDS. Avoid contact with skin and eyes. Avoid breathing gas. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not reuse container. Remove contaminated clothing immediately. Wash with soap and water after working with this product.
STORAGE:	Keep in airtight container away from all heat sources. Store in a segregated and approved area. Store in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Keep container in a well-ventilated area. Store away from incompatible materials. Store in the original container or an approved alternative made from compatible material. Do not store in unlabeled containers. Treat empty containers in a similar fashion as residual product may exist. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m³	ppm	mg/m
Toluene	TWA	200	375	20	NE
	STEL	150	560	NE	NE
Xylene	TWA	100	435	100	NE
	STEL	NE	NE	150	NE
Solvent Naphtha, Light Aromatic (Aromatic 100)	TWA	20	435	20	NE
	STEL	NE	NE	NE	NE
Solvent Naphtha (petroleum) Heavy Aromatic (Aromatic 150)	TWA	10	50	10	NE
	STEL	NE	NE	15	NE
Pentane	TWA	1000	2950	1000	NE
	STEL	NE	NE	NE	NE
Hexane	TWA	500	1800	50	NE
	STEL	NE	NE	NE	NE
Cyclohexane	TWA	300	1050	100	NE
	STEL	NE	NE	NE	NE
Lactol	TWA	NE	NE	75	300
	STEL	NE	NE	NE	NE
Heptane	TWA	500	2000	400	NE
	STEL	NE	NE	500	NE
VM & P Naphtha	TWA	500		300	1370
	STEL	NE	NE	NE	NE
Mineral Spirits	TWA	NE	NE	NE	NE
	STEL	NE	NE	NE	NE
Methanol	TWA	200	260	200	NE
	STEL	NE	NE	250	NE

Isopropanol	TWA	400	980	200	NE
	STEL	NE	NE	400	NE
Ethanol	TWA	1000	1900	NE	NE
	STEL	NE	NE	1000	NE
N-Propanol	TWA	200	500	100	NE
	STEL	NE	NE	NE	NE
N-Butanol	TWA	100	300	20	NE
	STEL	NE	NE	NE	NE
Glycol Ether EB	TWA	NE	NE	20	130
	STEL	NE	NE	NE	NE
Ethyl Acetate	TWA	400	1400	400	NE
	STEL	NE	NE	NE	NE
Isopropyl Acetate	TWA	250	950	100	NE
	STEL	NE	NE	200	NE
N-Propyl Acetate	TWA	200	840	200	NE
	STEL	NE	NE	250	NE
Isobutyl Acetate	TWA	150	700	150	NE
	STEL	NE	NE	NE	NE
N-Butyl Acetate	TWA	150	710	150	NE
	STEL	NE	NE	200	NE
Isobutyl Isobutyrate	TWA	NE	NE	NE	NE
	STEL	NE	NE	NE	NE
Glycol Ether EB Acetate	TWA	NE	NE	20	130
	STEL	NE	NE	NE	NE
Acetone	TWA	1000	2400	250	NE
	STEL	NE	NE	500	NE
Methyl Ethyl Ketone	TWA	200	590	200	NE
	STEL	NE	NE	300	NE
Methyl Propyl Ketone	TWA	200	700	NE	NE
	STEL	NE	NE	150	NE
Methyl Amyl Ketone	TWA	100	465	50	NE
	STEL	NE	NE	NE	NE
Methyl Isobutyl Ketone	TWA	100	410	20	NE
	STEL	NE	NE	75	NE
Cyclohexanone	TWA	50	200	20	NE
	STEL	NE	NE	50	NE
Diisobutyl Ketone	TWA	50	290	25	NE
	STEL	NE	NE	NE	NE
Tetrahydrofuran	TWA	200	590	50	NE

	STEL	NE	NE	100	NE
N-Methyl-2-Pyrrolidone	TWA	NE	NE	NE	NE
	STEL	NE	NE	NE	NE

ENGINEERING CONTROLS:	Provide adequate general and local exhaust ventilation to meet exposure limit requirements. Provide readily accessible eye wash stations and emergency showers. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
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PERSONAL PROTECTIVE EQUIPMENT	
Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact	Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)
Splash contact	Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

WORK HYGIENIC PRACTICES:	Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and launder before reuse. Shower after work using plenty of soap and water.
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9. PHYSICAL AND CHEMICAL PROPERTIES

a. Appearance	Form: clear, liquid Color: colorless
b. Odor	No data available
c. Odor Threshold	No data available
d. pH	No data available
e. Melting point/freezing point	< 0 °C (< 32 °F)
f. Initial boiling point and boiling range	137 - 140 °C (279 - 284 °F) - lit.
g. Flash point	25 °C (77 °F) - closed cup
h. Evaporation rate	No data available
i. Flammability (solid, gas)	No data available
j. Upper/lower flammability or explosion limits	UEL: 7%(V) LEL: 1.1%(V)
k. Vapor pressure	24 hPa (18 mmHg) at 37.70 °C (99.86 °F)
l. Vapor density	3.67 - (Air = 1.0)
m. Relative density	0.86 g/mL at 25 °C (77 °F)
n. Water solubility	No data available

o. Partition coefficient: n-octanol/water	No data available
p. Auto ignition temperature	No data available
q. Decomposition temperature	No data available
r. Viscosity	No data available
s. Explosive properties	No data available
t. Oxidizing properties	No data available
Other safety information	
Relative vapor density	3.67 - (Air = 1.0)

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (guinea)	INHALATION LC50 (rat)
Acetone	5800 mg/kg	7,426 mg/kg	50,100 mg/m3

Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit Result: Eye irritation - 24 h
Respiratory or skin sensitization	- Guinea pig Result: Does not cause skin sensitization.
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: AL3150000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney – irregularities – based on human evidence Skin – Dermatitis – Based on human evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Toluene	> 5,580 mg/kg	12,196 mg/kg	4 h - 12,500 - 28,800 mg/m ³

Skin corrosion/irritation	Skin - Rabbit Result: Skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Rat Liver DNA damage
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Damage to fetus possible Suspected human reproductive toxicant
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: XS5250000 Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals., Central nervous system Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Xylenes	No data available	No data available	No data available

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Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	<p>IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethyl benzene)</p> <p>IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	<p>RTECS: Not available</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence (Ethyl benzene)</p>

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Ethyl acetate	5,620 mg/kg	➤ 18,000 mg/kg	2 h - 45,000 mg/m ³

Skin corrosion/irritation	<p>Skin - Rabbit</p> <p>Result: Mild skin irritation (OECD Test Guideline 404)</p>
Serious eye damage/eye irritation	Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	<p>This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.</p> <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels</p>

	greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: AH5425000 Inhalation of high concentrations may cause:, Headache, Drowsiness, Dizziness, Vomiting, narcosis, anemia, Central nervous system depression Kidney - Irregularities - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Hexane	25,000 mg/kg	No data available	4 h - 48000 ppm

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Eyes – Rabbit Result: Mild eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Carcinogenicity - Rat - Inhalation Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic Effects: Testicular tumors. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Suspected human reproductive toxicant Suspected of damaging fertility.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	Ingestion - May cause damage to organs through prolonged or repeated exposure. - Nervous system
Aspiration hazard	May be fatal if swallowed and enters airways.
Additional Information	RTECS: MN9275000 Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:,

	Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slowed reaction time, slurred speech, Headache, Dizziness, Drowsiness, Unconsciousness Testes. - Irregularities - Based on Human Evidence Testes. - Irregularities - Based on Human Evidence
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Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (guinea)	INHALATION LC50 (rat)
Cyclohexane	12,705 mg/kg	>2,000 mg/kg	4 h - 34,000 mg/l

Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation
Serious eye damage/eye irritation	Eyes - Rabbit Result: Mild eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	May be fatal if swallowed and enters airways.
Additional Information	RTECS: GU6300000 Central nervous system depression, Drowsiness, Irritability, Dizziness, Gastrointestinal disturbance, Lung irritation, chest pain, pulmonary edema

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Heptane	No data available	No data available	4 h - 103,000 mg/m ³

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

Carcinogenicity	<p>This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.</p> <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	May be fatal if swallowed and enters airways.
Additional Information	<p>RTECS: MI7700000</p> <p>Prolonged or repeated exposure to skin causes defatting and dermatitis. Central nervous system depression, narcosis, Damage to the lungs.</p> <p>Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence</p>

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Mineral spirits	no data available	no data available	no data available

Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	No data available

Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	No data available
Additional Information	RTECS: no data available Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Methanol	1,187-2,769 mg/kg	17,100 mg/kg	4 h - 128.2 mg/l

Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation
Serious eye damage/eye irritation	Eyes – Rabbit Result: No eye irritation
Respiratory or skin sensitization	Maximization Test (GPMT) – Guinea pig Does not cause skin sensitization. (OECD Test Guideline 406)
Germ cell mutagenicity	Amers test S. Typhimurium Result: negative In Vitro Assay Fibroblast Result: negative Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone marrow cytogenetic test, chromosomal analysis) Mouse – male and female Result: negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Damage to fetus not classifiable Fertility classification not possible from current data.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification
Additional Information	RTECS: PC1400000 Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the:, Liver, Kidney

	Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
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Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
2-Propanol	5,045 mg/kg	12,800 mg/kg	8 h - 16000 ppm

Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation
Serious eye damage/eye irritation	Eyes - Rabbit Result: Eye irritation - 24 h
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Inhalation, Oral - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: NT8050000 Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung edema, Pneumonia To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney - Irregularities - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Ethanol	7,060 mg/kg	No data available	10 h - 20000 ppm

Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available

Germ cell mutagenicity	No data available
Carcinogenicity	<p>Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease.</p> <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	<p>No data available</p> <p>Reproductive toxicity - Human - female - Oral Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.</p>
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	<p>RTECS: KQ6300000</p> <p>Central nervous system depression, narcosis, Damage to the heart, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Heart - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence</p>

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Isopropyl acetate	6,750 mg/kg	No data available	8 h - 50,600 mg/m ³

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a</p>

	carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: A14930000 prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Butyl acetate	10,700 - 14,130 mg/kg	17,600 mg/kg	4 h - > 21.0 mg/l

Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: AF7350000 Drowsiness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
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2-Butanone	2,737 mg/kg	6,480 mg/kg	4 h - 32,000 mg/m ³
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Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes – Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: EL6475000 Central nervous system depression, Gastrointestinal disturbance, narcosis Livers - Irregularities - Based on Human Evidence Livers - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
4-Methyl-2-pentanone	2,080 mg/kg	> 16,000 mg/kg	4 h - 8.2 - 16.4 mg/m ³

Skin corrosion/irritation	Skin - Rabbit Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation	Eyes – Rabbit Result: Moderate eye irritation - 24 h
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: 2B - Group 2B: Possibly carcinogenic to humans (4-Methylpentan-2-one) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or

	<p>anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	<p>No data available</p> <p>Developmental Toxicity - Mouse - Inhalation Effects on Embryo or Fetus: Feta toxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.</p> <p>Developmental Toxicity - Mouse - Inhalation Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.</p>
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	<p>RTECS: SA9275000</p> <p>Blurred vision, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence</p>

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 ()	INHALATION LC50 (rat)
Cyclohexanone	1,534 mg/kg	794-3,160 mg/kg	4 h - > 6.2 mg/l

Skin corrosion/irritation	<p>Skin – Rabbit Result: Irritating to skin (OECD Test Guideline (404))</p>
Serious eye damage/eye irritation	<p>Eyes – Rabbit Result: Risk of serious damage to eyes. – 24 h</p>
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	<p>Not mutagenic in Ames Test Ames Test S. typhimurium Result: negative Human Fibroblast Result: Laboratory experiments have shown mutagenic effects.</p>
Carcinogenicity	<p>This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.</p> <p>IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Cyclohexanone)</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>

Reproductive toxicity	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Specific target organ toxicity - single exposure	No data available Acute inhalation toxicity - Breathing difficulties
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: GW1050000 Prolonged or repeated exposure to skin causes defatting and dermatitis., Cough, Shortness of breath, Headache, Nausea, Vomiting, Incoordination., Inhalation of high concentrations may cause:, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD₅₀ (rat)	DERMAL LD₅₀ (rabbit)	INHALATION LC₅₀ (rat)
Tetrahydrofuran	2050 to 2850 mg/kg	> 2000 mg/kg	54 mg/L (4 hours)

NOTES: This product is an eye irritant, severe skin irritant, and may be an inhalation and ingestion hazard. Fast skin penetrant. Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. Ingestion may produce symptoms of nervous system depression including headache, dizziness, nausea, loss of sense of balance, drowsiness, and visual disturbances. This product is not expected to be a sensitizer.

EYE EFFECTS: Contact may cause severe eye irritation. Prolonged contact may cause irreversible damage.

SKIN EFFECTS: This product is a severe skin irritant. Skin absorption is expected. 10 and 30% aqueous THF solutions were found to rapidly penetrate but not damage human skin in vitro. Higher aqueous concentrations and undiluted tetrahydrofuran may damage the skin and affect absorption, although irritation sensations may limit in vivo exposure. Note that the penetration coefficient (Kp value) of 10% aqueous THF ranged from 0.011 to 0.015 cm/hr.

CHRONIC: Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause defatting and dermatitis. May cause liver and kidney damage. May cause lung damage. Narcotic in high concentrations.

CARCINOGENICITY: Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation) classifies tetrahydrofuran as a Category 2 carcinogen. However, the Occupational Safety and Health Administration (OSHA), the American Conference of Governmental Industrial Hygienists (ACGIH), the Environmental Protection Agency (EPA), and the International Agency for Research on Cancer (IARC) have not classified tetrahydrofuran as a carcinogen. In lifetime bioassays conducted under the NTP in rats and mice exposed to concentrations up to 1800 ppm tetrahydrofuran by inhalation for 6 hours/day, 5 day/week for 105 weeks, some evidence of renal carcinogenicity was observed in male rats exposed to the 2 highest concentrations tested (600 and 1800 ppm) and clear evidence of liver carcinogenicity was observed in female mice exposed only to the highest concentration tested (1800 ppm). No evidence of carcinogenicity was seen in either female rats or male mice.

SENSITIZATION: This product is not expected to be a sensitizer.

NEUROTOXICITY: Not Established.

GENETIC EFFECTS: This product is not anticipated to cause genetic effects.

REPRODUCTIVE EFFECTS: This product is not anticipated to be a reproductive toxin.

TERATOGENIC EFFECTS: Not Established.

MUTAGENICITY: This product is not anticipated to be mutagenic.

Chemical Name	ORAL LD₅₀ (rat)	DERMAL LD₅₀ (rabbit)	INHALATION LC₅₀ (rat)
1-Methyl-2-pyrrolidinone	3,914 mg/kg	8,000 mg/kg	4 h - > 5100 ppm

Skin corrosion/irritation	Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
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Serious eye damage/eye irritation	Eyes - Rabbit Result: Eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Damage to fetus possible
Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: UY5790000 prolonged or repeated exposure can cause:, Vomiting, Diarrhea, Abdominal pain, Rats exposed to 1-methyl-2- pyrrolidinone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes. Bone marrow - Irregularities - Based on Human Evidence Bone marrow - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

ACETONE	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h
Toxicity to algae	No data available
Persistence and degradability	
Biodegradability	Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B)
Bioaccumulative potential	Does not bio-accumulate.
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

TOLUENE	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h

	Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h
Persistence and degradability	No data available
Biodegradability	Result: - Readily biodegradable
Bio-accumulative potential	Bioaccumulation Leuciscus idus (Golden orfe) - 3 d - 0.05 mg/l Bioconcentration factor (BCF): 90
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

XYLENES	
Toxicity	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

ETHYL ACETATE	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 350.00 - 600.00 mg/l - 96 h LC50 - Pimephales promelas (fathead minnow) - 220.00 - 250.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	Result: 79 % - Readily biodegradable (OECD Test Guideline 301D)
Bio-accumulative potential	- 3 day Bio concentration factor (BCF): 30
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

HEXANE	
Toxicity	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 2.5 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3,878.00 mg/l - 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 12,840.00 mg/l - 3 h EC50 - SKELETOMA - 0.30 mg/l - 8 h
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

CYCLOHEXANE	
Toxicity	
Toxicity to fish	Flow-through test LC50 – Pimephales promelas (fathead minnows) – 4.53 mg/l – 96 h (OECD Test Guidelines)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 – Daphnia magna (Water flea) – 0.9 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 3.4 mg/l - 72 h (OECD Test Guideline 201)
Persistence and degradability	
Biodegradability	Result: - Readily biodegradable
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

HEPTANE	
Toxicity	
Toxicity to fish	LC50 – Carassius auratus (goldfish) – 4 mg/l – 24 h LC 50 Tilapia mossambica – 375 mg/l – 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) – 1.50 mg/l – 48 h
Toxicity to algae	No data available
Persistence and degradability	Ratio BOD/ThBOD 3.5 %
Biodegradability	No data available
Bio-accumulative potential	Indication of bioaccumulation.
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Do not empty into drains. Avoid release to the environment.

MINERAL SPIRITS	
Toxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available

Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	no data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

METHANOL	
Toxicity	
Toxicity to fish	Mortality LC50 – <i>Lepomis Macrochirus</i> (Bluegill) – 15,400.0 mg/l – 96 h NOEC – <i>Oryzias latipes</i> – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - > 10,000.00 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - <i>Scenedesmus capricornutum</i> (fresh water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	No data available
Biodegradability	Aerobic – Exposure time 5 d Result: 72% - rapidly biodegradable Biochemical Oxygen Chemical Oxygen Demand (BOD) Demand (BOD) Theoretical oxygen demand 600 – 1,120 mg/g 1,420 mg/g 1,500 mg/g
Bio-accumulative potential	Bio-accumulation <i>Cyprinus carpio</i> (carp) – 72 d At 20 °C - 5 mg/l Bio-concentration factor (BCF):1.0
Mobility in soil	Will not adsorb on soil.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	Additional ecological information Avoid release to the environment.

ISOPROPANOL	
Toxicity	
Toxicity to fish	LC50 - <i>Pimephales promelas</i> (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 5,102.00 mg/l - 24 h Immobilization EC50 – <i>Daphnia magna</i> (water flea) – 6,851 mg/l -24 h
Toxicity to algae	EC50 - <i>Desmodesmus subspicatus</i> (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

ETHANOL	
Toxicity	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available

Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

ISOPROPYL ACETATE	
Toxicity	
Toxicity to fish	LC0 - <i>Leuciscus idus melanotus</i> - 260 mg/l - 48 h LC50 - <i>Leuciscus idus melanotus</i> - 265 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

BUTYL ACETATE	
Toxicity	
Toxicity to fish	LC50 - <i>Lepomis macrochirus</i> (Bluegill) - 100 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 72.8 - 205.0 mg/l - 24 h EC50 - <i>Daphnia</i> (water flea) - 44 mg/l - 48 h
Toxicity to algae	EC50 - <i>Desmodesmus subspicatus</i> (<i>Scenedesmus subspicatus</i>) - 674.7 mg/l - 72 h
Persistence and degradability	No data available
Biodegradability	Result: - Readily biodegradable
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. No data available

METHYL ETHYL KETONE	
Toxicity	
Toxicity to fish	mortality NOEC - <i>Cyprinodon variegatus</i> (sheep head minnow) - 400 mg/l - 96 h LC50 - <i>Pimephales promelas</i> (fathead minnow) - 3,130 - 3,320 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - <i>Daphnia magna</i> (Water flea) - > 520 mg/l - 48 h
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

METHYL ISOBUTYL KETONE	
Toxicity	
Toxicity to fish	LC0 - <i>Leuciscus idus melanotus</i> - 480 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 1,550 - 3,623 mg/l - 24 h
Toxicity to algae	EC50 - <i>Desmodesmus subspicatus</i> (green algae) - 980 - 2,000 mg/l - 48 h
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 7 d
Biodegradability	No data available
Bio-accumulative potential	Bioaccumulation <i>Oncorhynchus mykiss</i> (rainbow trout) - 24 h - 921 mg/l
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

CYCLOHEXANONE	
Toxicity	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	EC50 – <i>Daphnia magna</i> (Water flea) – 820 mg/l – 24 h
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

TETRAHYDROFURAN

Toxicity

ENVIRONMENTAL DATA: This material is expected to leach into groundwater.

BIOACCUMULATION/ACCUMULATION: This product is not readily biodegradable. This material is not expected to significantly bioaccumulate.

DISTRIBUTION: Do not discharge into or allow runoff to flow into sewers and natural waterways. Contain spill material and dike for proper disposal.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 2160 mg/L (*Pimephales promelas*)

CHEMICAL FATE INFORMATION: When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

GENERAL COMMENTS: Any other adverse environmental effects, such as environmental fate (exposure), ozone depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and global warming potential are indicated in this section if data exists. Otherwise, this data has not been established.

N-METHYL-2-PYRROLIDONE	
Toxicity	
Toxicity to fish	LC50 - other fish - 4,000 mg/l - 96 h LC50 - <i>Leuciscus idus</i> (Golden orfe) - > 500 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - > 1,000 mg/l - 24 h
Toxicity to bacteria	LC50 - Bacteria - > 9,000 mg/l
Persistence and degradability	Biodegradability
Biodegradability	Result: 90 % - Readily biodegradable
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product

14. TRANSPORT INFORMATION

DOT (US)					
UN number:	1993	Class:	3	Packing Group:	II
Proper shipping name:	Flammable Liquid n.o.s.(acetone, toluene)				
Reportable Quantity (RQ):	5000 lbs.				
Poison inhalation hazard:	No				

IMDG							
UN number:	1993	Class:	3	Packing Group:	II	EMS-No:	S-D
Proper shipping name:	Flammable Liquid n.o.s.(acetone, toluene)						

IATA							
UN number:	1993	Class:	3	Packing Group:	II		
Proper shipping name:	Flammable Liquid n.o.s.(acetone, toluene)						

15. REGULATORY

Information United States	
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	The following components are subject to reporting requirements of Sara Title III, Section 302. 2-Propanol
SARA 311/312 Components	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components	Acetone Toluene Xylene
Pennsylvania Right To Know Components	Ethyl benzene n-Hexane cyclohexane
New Jersey Right To Know Components	Heptane Alkanes, C10-13-iso- Methanol 2-Propanol

	Ethanol Ethyl acetate Isobutyl acetate Isopropyl acetate n-Butyl acetate Methyl Ethyl Ketone Methyl Propyl Ketone Methyl Amyl Ketone Methyl Isobutyl Ketone Cyclohexanone Diisobutyl Ketone Tetrahydrofuran N-Methyl-2-Pyrrolidone
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER

INFORMATION	
Full text of H-Statements referred to under sections 2 and 3.	
Eye Irrit.	Eye Irritation
Flam. Liq.	Flammable liquid
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity – single exposure
HMIS RATING	
Health Hazard	2
Chronic health hazard	*
Flammability	3
Physical hazard	0
NFPA RATING	
Health Hazard	2
Fire Hazard	3
Reactivity hazard	0
Health hazard	2

DATA

SOURCES:**REFERENCES**

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UNECE. Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Third Revised Edition. New York and Geneva. United Nations, 2009.

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US EPA. Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act. [Available] Online: <http://www.epa.gov/ceppo/pubs/title3.pdf>. Retrieved

[02/02/2011.](#)

ADDITIONAL SDS INFORMATION:

KEY /LEGEND

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - Agreement on Dangerous Goods by Road
CAA - Clean Air Act
CAS - Chemical Abstracts Service Registry Number
CDG - Carriage of Dangerous Goods By Road and Rail Manual
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations
EINECS - European Inventory of Existing Chemical Substances Registry Number
ERG - Emergency Response Guidebook
EPCRA - Emergency Planning and Community Right-to-Know Act
GHS - Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods Code
IMO - International Maritime Organization
N/E - Not Established
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
PPE - Personal Protective Equipment
RCRA - Resource Conservation and Recovery Act
RID - Regulations Concerning the International Transport of Dangerous Goods by Rail

RQ - Reportable Quantities
SARA - Superfund Amendments and Reauthorization Act of 1986
SDS - Safety Data Sheet
TCC - Tag Closed Cup
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substance Control Act
UN/NA - United Nations / North American Number
UNECE - United Nations Economic Commission for Europe
US DOT - United States Department of Transportation
US EPA - United States Environmental Protection Agency
Vol. - Volume
WHMIS - Workplace Hazardous Materials Information System

GENERAL STATEMENTS: Other information not included anywhere else in this SDS is included in this section if, in fact, such data exists.

MANUFACTURER DISCLAIMER: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.