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#### **SECTION 4. FIRST AID MEASURES**

General advice Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this

material.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough

loss of appetite confusion

irregular heartbeat respiratory failure

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May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite

explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Aldehydes

carbon dioxide and carbon monoxide

organic compounds Hydrocarbons formaldehyde-like

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and : Evacuate personnel to safe areas. Remove all sources of ignition.

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emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Suppress (knock down) gases/vapours/mists with a water

spray jet.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Other information

: Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water

spray jet.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Open drum carefully as content may be under pressure. Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Container may be opened only under exhaust ventilation

hood.

Conditions for safe storage

: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force

or throw into fire even after use. Do not spray on flames or red-hot objects.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

No smoking.

Electrical installations / working materials must comply with

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the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TOLUENE	108-88-3	TWA	20 ppm	ACGIH
		REL	100 ppm 375 mg/m3	NIOSH/GUID E
	The second second	STEL	150 ppm 560 mg/m3	NIOSH/GUID E
1 1000	- 11-12	TWA	200 ppm	OSHA/Z2
1		Ceiling	300 ppm	OSHA/Z2
and the location		MAX. CONC	500 ppm	OSHA/Z2
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	TWA	500 ppm	OSHA_TRA NS
* - 2.F		TWA	300 ppm	ACGIH
		TWA	2,000 mg/m3	OSHA_TRA NS
		TWA	1,370 mg/m3	ACGIH
ETHYL ETHER	60-29-7	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
		PEL	400 ppm 1,200 mg/m3	OSHA_TRA NS
	i a cross i	TWA	400 ppm 1,200 mg/m3	TN OEL
3 - 7 - 7 - 7		STEL	500 ppm 1,500 mg/m3	TN OEL
n-HEPTANE	142-82-5	REL	85 ppm 350 mg/m3	NIOSH/GUID E
Sar Sar Sar Sar Sar	1	Ceil_Time	440 ppm 1,800 mg/m3	NIOSH/GUID E
1. 0		PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
2		STEL	30,000 ppm	ACGIH
stance and a	10 13	REL	5,000 ppm 9,000 mg/m3	NIOSH/GUID E
		STEL	30,000 ppm 54,000 mg/m3	NIOSH/GUID E
	81 May 1	PEL	5,000 ppm 9,000 mg/m3	OSHA_TRA NS
ETHANOL	64-17-5	REL	1,000 ppm	NIOSH/GUID

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			1,900 mg/m3	E
		PEL	1,000 ppm 1,900 mg/m3	OSHA_TRA NS
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	Z1A
ETHYL CHLORIDE	75-00-3	TWA	100 ppm	ACGIH
		PEL	1,000 ppm 2,600 mg/m3	OSHA_TRA NS
		TWA	1,000 ppm 2,600 mg/m3	Z1A

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
TOLUENE	108-88-3	o-Cresol, with hydrolysis	Creatinine in urine	Samplin g time: End of shift.	0.3 mg/g	
Remarks:	Backgroun	d		1,3 =	1 12	
		toluene	Urine	Samplin g time: End of shift.	0.03 mg/l	
		toluene	Blood	Samplin g time: Prior to last shift of work week.	0.02 mg/l	

#### **Engineering measures**

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

In the case of dust or aerosol formation use respirator with an

approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, airsupplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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Hand protection Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

: Wear as appropriate:

impervious clothing

Safety shoes

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state

: aerosol

Odour

: No data available

Odour Threshold

: No data available

рΗ

: No data available

: No data available

Boiling point/boiling range

: 94.3 °F / 34.6 °C

(1,013.232 hPa)

Calculated Phase Transition Liquid/Gas Flash point : -49 °F / -45 °C

Calculated Flash Point

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

1.1

Upper explosion limit

: 36.5 %(V) Calculated Explosive Limit

Lower explosion limit

: 1.05 %(V)

Vapour pressure

Calculated Explosive Limit

: 717.2616 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

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Density

: 0.7114 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid

: Heat, flames and sparks.

excessive heat

Incompatible materials

: Acids

Alkali metals Ammonia Bases halogens

inorganic materials Oxidizing agents

sodium

Sulphur compounds

Hazardous decomposition

products

Aldehydes

carbon dioxide and carbon monoxide

formaldehyde-like Hydrocarbons organic compounds

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC: Acute oral toxicity : LD 50 (Rat): > 8,000 mg/kg

Acute inhalation toxicity

: LC 50 (Rat): 3400 ppm

Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity

: LD 50 (Rat): > 4,000 mg/kg

ETHYL ETHER:

Acute oral toxicity

: LD50 (Rat): 1,200 - 1,700 mg/kg

Acute inhalation toxicity

: LC 50 (Rat): 32,000 mg/l

Exposure time: 4 h

n-HEPTANE:

Acute oral toxicity

: LD 50 (Rat): Expected > 5,000 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

Acute inhalation toxicity

: LC 50 (Rat, male and female): > 29.29 mg/l

Exposure time: 4 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Acute dermal toxicity

: LD 50 (Rabbit): Expected > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Remarks: Information given is based on data obtained from

similar substances.

ETHANOL:

Acute oral toxicity

: LD 50 (Rat): 7,060 mg/kg

Acute inhalation toxicity

: LC 50 (Rat): 117 - 125 mg/l

Exposure time: 4 h

LC 50 (Mouse): 39 mg/l Exposure time: 4 h

Acute dermal toxicity

: LD Lo (Rabbit): 20 g/kg

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ETHYL CHLORIDE:

Acute inhalation toxicity

: LC 50 (Rat): > 19000 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

**TOLUENE:** 

Acute oral toxicity

: LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC 50 (Rat): 8000 ppm

Exposure time: 4 h

Acute dermal toxicity

: LD 50 (Rabbit): 12,124 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to skin

ETHYL ETHER:

Result: Irritating to skin

n-HEPTANE:

Result: Irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

ETHANOL:

Result: Slightly irritating to skin

ETHYL CHLORIDE:

Result: Mildly irritating to skin

**TOLUENE:** 

Result: Irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to eyes

ETHYL ETHER:

Result: Severely irritating to eyes

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n-HEPTANE:

Result: Mildly irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

ETHANOL:

Result: Irritating to eyes

ETHYL CHLORIDE:

Result: Mildly irritating to eyes

**TOLUENE:** 

Result: Irritating to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: n-HEPTANE:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

Not classified based on available information.

Components: n-HEPTANE:

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro

Test species: rat hepatocytes Method: OECD Test Guideline 473

Result: negative

: Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

#### Carcinogenicity

Suspected of causing cancer.

**Components:** 

ETHYL CHLORIDE:

Carcinogenicity - Assessment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

TOLUENE:

Reproductive toxicity -

Assessment

: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

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#### Components:

ETHYL ETHER:

Assessment: May cause drowsiness or dizziness.

n-HEPTANE:

Assessment: May cause drowsiness or dizziness.

ETHANOL:

Assessment: May cause drowsiness or dizziness.

**TOLUENE:** 

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

#### STOT - repeated exposure

Not classified based on available information.

Components: TOLUENE:

Exposure routes: Inhalation

Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects

on colour vision)

Assessment: May cause damage to organs through prolonged or repeated exposure.

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

#### Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

n-HEPTANE:

May be fatal if swallowed and enters airways.

TOLUENE:

May be fatal if swallowed and enters airways.

#### **Further information**

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

ETHYL CHLORIDE: Remarks: Liver

Remarks: Central nervous system

Carcinogenicity:

**IARC** 

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**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.

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.

#### SECTION 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

n-HEPTANE:

aquatic invertebrates

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): 1.5 mg/l

Exposure time: 48 h Test Type: static test

LC 50 (Mysidopsis bahia (opossum shrimp)): 0.1 mg/l

Exposure time: 96 h Test Type: semi-static test

aquatic invertebrates

(Chronic toxicity)

Toxicity to daphnia and other : NOELR (Water flea (Daphnia magna)): 1 mg/l

Exposure time: 21 d Test Type: static test Test substance: WAF

Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: Very toxic to aquatic life.

Chronic aquatic toxicity

: Very toxic to aquatic life with long lasting effects.

ETHANOL:

Toxicity to fish

: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 12,000 - 16,000 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

ETHYL CHLORIDE:

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 58 mg/l

Exposure time: 48 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.2.

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Toxicity to algae

: EC50 (Desmodesmus subspicatus (green algae)): 118 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

TOLUENE:

Toxicity to fish

: LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Ceriodaphnia dubia)): 3.78 mg/l

Exposure time: 48 h Remarks: Mortality

Toxicity to algae

: EC50 (Pseudokirchneriella subcapitata (microalgae)): > 433

ma/l

End point: Growth inhibition Exposure time: 96 h

NOEC (Scenedesmus quadricauda (Green algae)): > 400

mg/l

End point: Growth inhibition

Exposure time: 7 d

Toxicity to fish (Chronic

toxicity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 1.39 mg/l

Exposure time: 40 d

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Ceriodaphnia dubia)): 0.74 mg/l

Exposure time: 7 d

Persistence and degradability

n-HEPTANE:

Biodegradability

: Result: Readily biodegradable

ETHYL CHLORIDE:

Biodegradability

: Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.E.

**TOLUENE:** 

Biodegradability

: Result: Readily biodegradable

Bioaccumulative potential

ETHYL ETHER:

Partition coefficient: n-

octanol/water

: log Pow: 0.89

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n-HEPTANE:

Partition coefficient: n-

: log Pow: 4.66

octanol/water

ETHANOL:

Partition coefficient: n-

: log Pow: -0.31

octanol/water

ETHYL CHLORIDE: Partition coefficient: n-

octanol/water

: log Pow: 1.43

**TOLUENE:** 

Bioaccumulation

: Species: Ide, silver or golden orfe (Leuciscus idus)

Bioconcentration factor (BCF): 94

Exposure time: 3 d Concentration: 0.05 mg/l Method: Not reported

Partition coefficient: n-

octanol/water

: log Pow: 2.73

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

General advice

: The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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RANSI UN RANSI	PORT CA 1950 PORT CA	NADA - INLAND WATERWAY AEROSOLS NADA - RAIL	ZS 2.1		2 - 22 STR 107	QUANTITY  LIMITED  QUANTITY
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RANSI UN RANSI UN	PORT CA 1950 PORT CA 1950	NADA - INLAND WATERWAY AEROSOLS  NADA - RAIL AEROSOLS  NADA - ROAD	ZS 2.1		4 LESTRIST	QUANTITY  LIMITED QUANTITY  LIMITED QUANTITY  MARINE POLLUTANT:(
RANSI UN RANSI UN	PORT CA 1950 PORT CA 1950	NADA - INLAND WATERWAY AEROSOLS  NADA - RAIL AEROSOLS  NADA - ROAD	ZS 2.1 2.1		* DESTRICT	QUANTITY  LIMITED QUANTITY  LIMITED QUANTITY  MARINE POLLUTANT:( ALIPHATIC
RANSI UN RANSI UN	PORT CA 1950 PORT CA 1950	NADA - INLAND WATERWAY AEROSOLS  NADA - RAIL AEROSOLS  NADA - ROAD	ZS 2.1 2.1		A CASSIBILITY	QUANTITY  LIMITED QUANTITY  LIMITED QUANTITY  MARINE POLLUTANT:( ALIPHATIC PETROLEUM
RANSI UN RANSI UN	PORT CA 1950 PORT CA 1950	NADA - INLAND WATERWAY AEROSOLS  NADA - RAIL AEROSOLS  NADA - ROAD	ZS 2.1 2.1	For Hills and an a	A LESTRIST	QUANTITY  LIMITED QUANTITY  LIMITED QUANTITY  MARINE POLLUTANT:( ALIPHATIC

U.S. DOT - INLAND WATERWAYS

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UN	1950	Aerosols, flammable (engine starting fluid)	2.1
10.79			

#### U.S. DOT - RAIL

UN	1950	Aerosols, flammable (engine starting fluid)	2.1
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#### U.S. DOT - ROAD

UN	1950	AEROSOLES	2.1		
				A STATE OF THE STA	

#### \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant		yes	
chy - which	-115-bu1		

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ		
		(lbs)	(lbs)		
ETHYL ETHER	60-29-7	100	511.380779		

SARA 311/312 Hazards : Chronic Health Hazard

Fire Hazard

Acute Health Hazard

SARA 313

Component(s)SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	70.00 - 90.00 %
ETHYL ETHER	60-29-7	10.00 - 20.00 %
n-HEPTANE	142-82-5	1.00 - 5.00 %
CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
ETHANOL	64-17-5	1.00 - 5.00 %

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New Jersey Ri	ght To Know SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	70.00 - 90.00 %
	ETHYL ETHER	60-29-7	10.00 - 20.00 %
	n-HEPTANE	142-82-5	1.00 - 5.00 %
	CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
	ETHANOL	64-17-5	1.00 - 5.00 %
	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	0.10 - 1.00 %
	TOLUENE	108-88-3	0.10 - 1.00 %

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: On the inventory, or in compliance with the inventory

**ENCS** 

: Not in compliance with the inventory

**KECL** 

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: On the inventory, or in compliance with the inventory

#### Inventories

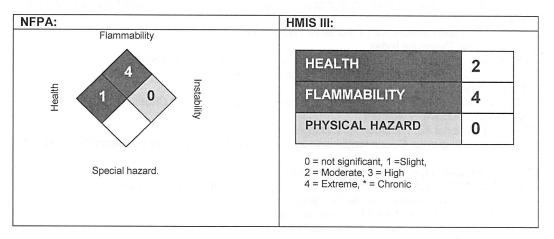
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

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### NFPA Flammable and Combustible Liquids Classification

Not applicable

#### Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapor.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
	if inhaled.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the

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information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

# **Material Safety Data Sheet**

CHEMICAL VULCANIZING FLUID



1/9

### 1. Product and company identification

Product name : CHEMICAL VULCANIZING FLUID

Supplier : Same as manufacturer.au supplier

**Synonym** : 760, 761, 762, 763, 764, 765, 766, 767

Trade name : Tech Chemical Vulcanizing Fluid

Material uses : Consumer products: rubber adhesive

Industrial applications: rubber adhesive

Manufacturer : Tech International, 200 E. Coshocton St., Johnstown, Ohio 43031, 740-967-9015

**Code** : 760, 761, 762, 763, 764, 765, 766, 767

MSDS # : 760

 Validation date
 : 2/27/2014.

 Print date
 : 2/27/2014.

In case of emergency : Chemtrec 1-800-424-9300 (24hrs)

CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449

CHEMTREC Mexico: 01-800-681-9531 CHEMTREC Russia: 8-800-100-6346

Product type : Liquid.

### 2. Hazards identification

#### **Emergency overview**

hysical state : Liquid.

Color : Tan. [Light]

Odor : Solvent. [Strong]

Signal word : DANGER!

Hazard statements : EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY

CAUSE FLASH FIRE. CAUSES SKIN IRRITATION. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA.

**Precautionary measures**: Do not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or

smoke when using this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Wash thoroughly after

handling.

Routes of entry : Not available.

Potential acute health effects

**Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

**Ingestion** : No known significant effects or critical hazards.

Skin : Irritating to skin.

**Eyes** : Slightly irritating to the eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

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### 2. Hazards identification

Target organs

: Contains material which may cause damage to the following organs: cardiovascular system, upper respiratory tract, central nervous system (CNS).

#### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

**Eyes**: Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

exposure

See toxicological information (Section 11)

### 3. Composition/information on ingredients

Name	CAS number	%
solvent naphtha (petroleum), light aliph.	64742-89-8	90 - 96

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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### 5. Fire-fighting measures

mmability of the product : Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

#### Extinguishing media

Suitable

: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire hazards

: Not available.

Special remarks on explosion hazards

: Not available.

### Accidental release measures

### Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. Handling and storage

#### Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling		¥ ,			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
solvent naphtha (petroleum blend), light	US ACGIH	400	-	-	-	-	-	-	-	-	
Rubber , Inhalable allergenic proteins	US ACGIH 3/2012	-	0. 0001	-	-	-	-	-	-	-	[1][3] [a]
Rubber , as total proteins	AB 4/2009	= 1	0.001	- % 10	- 1	-	-	- "	-	-	[1]
Rubber , Inhalable allergenic proteins	BC 4/2012 ON 7/2010	3	0.001 0. 0001	- (.b.	-	,- - ,-1 [	- , - ,	-	-	-	[1][3] [b] [1][3] [a]

[1]Absorbed through skin. [3]Skin sensitization

Form: [a]Inhalable fraction [b]Inhalable

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Engineering measures**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protection

### 8. Exposure controls/personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

рН

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

ro

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other protection Personal protective equipment (Pictograms) Not available.Not available.

### 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: -7°C (19.4°F) [Tagliabue.]

Burning time : Not applicable.

Burning rate : Not applicable.

Auto-ignition temperature : 280°C (536°F)

Flammable limits : Lower: 1.3%
Upper: 8%

Color : Tan. [Light]
Odor : Solvent. [Strong]
Taste : Not available.
Molecular weight : Not applicable.
Molecular formula : Not applicable.

Boiling/condensation point : 93.333 to 115.56°C (200 to 240°F)

Melting/freezing point: Not available.Critical temperature: Not available.

Relative density : 0.74

**Vapor pressure** : 5.3 kPa (40 mm Hg) [room temperature]

: Not applicable.

**Vapor density** : >1 [Air = 1] **Volatility** : 92.7% (w/w)

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### 9. Physical and chemical properties

Odor threshold

: Not available.

**Evaporation rate** 

: >1 (butyl acetate = 1)

SADT

: Not available.

Viscosity

: Dynamic (room temperature): 400 mPa·s (400 cP)

Ionicity (in water)

: Not available.

Dispersibility properties

: Not available.

Solubility

: Not available.

Physical/chemical properties comments

: Not available.

### 10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

.....

Incompatible materials

: Highly reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
solvent naphtha (petroleum blend), light	LC50 Inhalation Gas.	Rat	3400 ppm	4 hours
	LD50 Dermal LD50 Oral		>4000 mg/kg >8000 mg/kg	-

Conclusion/Summary

: Not available.

Chronic toxicity

Not available.

Conclusion/Summary

: Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

: Not available.

<u>Sensitizer</u>

Not available.

Conclusion/Summary

: Not available.

Carcinogenicity

Not available.

**Conclusion/Summary** 

: Not available.

Classification

Not available.

#### Mutagenicity

### 11. Toxicological information

Not available

Conclusion/Summary

: Not available.

**Teratogenicity** 

Not available.

Conclusion/Summary

: Not available.

Reproductive toxicity

Not available.

Conclusion/Summary

: Not available.

Synergistic products

: Not available.

### 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Not available.

Conclusion/Summary

: Not available.

Persistence/degradability

Not available.

Conclusion/Summary

: Not available.

Partition coefficient: n-

ctanol/water

: Not available.

ioconcentration factor

: Not available.

Mobility

: Not available.

Toxicity of the products of

biodegradation

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Waste stream

: Not available.

RCRA classification

: Not available.

isposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.