# **EKMAR**

# SAFETY DATA SHEET

# 1. Identification

Product identifier TS-3

Other means of identification

Product code TS-3

Recommended use Cured ink remover

Other Information This chemical/product is not and cannot be distributed in commerce (as defined in TSCA

section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal

# Manufacturer/Importer/Supplier/Distributor information

Company name Tekmar

Address P.O Box 4700

Santa Barbara, CA 93140

**United States** 

**Telephone** Product Stewardship 805-965-0704

Transportation 800-564-1096

Website http://tekmarltd.com/

E-mail techsupport@tekmarltd.com

Emergency phone number Chemtrec 800-424-9300

Emergency Phone 805-965-0704 International ++703 527-3887

Supplier Refer to Manufacturer

# 2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Not currently regulated by OSHA, refer to Section 12 for additional information.

OSHA defined hazards

This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause cancer. May

cause damage to the liver and kidneys through prolonged or repeated exposure. May cause

respiratory irritation. May cause drowsiness or dizziness.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe vapor. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid

release to the environment. Wear protective gloves/clothing and eye/face protection.

Material name: TS-3 1699 Version #: 02 Issue date: 08-01-2019 SDS US

Response IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

No OSHA defined hazard classes.

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May hydrolyze very slowly in the presence of water to form acids. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

**Supplemental information** Avoid contact with eyes, skin, and clothing. Keep away from extreme heat and flame. Keep away

from incompatibles.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Methylene chloride	DICHLOROMETHANE	75-09-2	70 - < 90	
Solvent Naphtha (petroleum), Light Aliphatic	LIGHT ALIPHATIC SOLVENT NAPHTHA	64742-89-8	5 - < 10	
Tetrachloroethylene	ETHYLENE TETRACHLORIDE PERCHLOROETHYLENE Tetrachloroethene	127-18-4	5 - < 10	

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

### 4. First-aid measures

**Inhalation** If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing stops,

provide artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, trained personnel should give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention. Take

off contaminated clothing and wash before reuse.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce

vomiting. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having

convulsions.

Most important

symptoms/effects, acute and delayed

Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding. Causes respiratory tract irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. May cause central nervous system effects. Symptoms may include pain,

headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision.

May cause cancer. Symptoms may include pain, nausea, weight loss, yellowing of the skin,

fatigue, headache, behavioral changes and various other symptoms.

May cause damage to the liver and kidneys through prolonged or repeated exposure. Symptoms

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may include weakness, weight loss, nausea, abnormal heart rhythms and jaundice.

Indication of immediate medical attention and special treatment needed

Immediate medical attention is required. May be harmful if swallowed. Provide general supportive measures and treat symptomatically.

**General information**Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Aldehydes. Hydrocarbons. Not considered flammable. May become flammable with extreme heat. Vapors are heavier than air and may spread along floors. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes, gases or vapours may evolve on burning.

Special protective equipment and precautions for firefighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

Evacuate area. Fight fire with normal precautions from a reasonable distance.. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

eneral fire hazards

Not considered flammable.

**Hazardous combustion**Carbon oxides. Hydrogen chloride. Chlorine. Phosgene. Aldehydes. Hydrocarbons. Other irritating fumes and smoke.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel. Restrict access to area until completion of clean-up. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk.

Small Spills: Move the leaking container to a containment area or rotate the container so that the opening is above the liquid level. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labelled containers.

Large Spills: Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Contain material as described above and call the local fire or police department for immediate emergency assistance.

Never return spills to original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see section 13 of the SDS.

Contact the proper local authorities.

**Environmental precautions** 

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Contact local authorities in case of spillage to drain/aquatic environment.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

To avoid uncontrolled emissions, vent vapor from container to storage tank. Consider process enclosure. Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Wear protective gloves/clothing and eye/face protection. See Section 8 of the SDS for Personal Protective Equipment. Vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter these areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance. Do not breathe vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash hands thoroughly after handling. Empty containers retain residue and can be dangerous. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Significant vapor pressures (> 5 psi) can be generated above 29C (85F). This may result in venting or rupture. Do not store in zinc, aluminum, aluminum alloys or plastics. Store away from incompatible materials (see Section 10 of the SDS). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

# 8. Exposure controls/personal protection

# Occupational exposure limits

Components	Type	Value	
Methylene chloride (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	
US. OSHA Table Z-2 (29 CFR 1910	0.1000)		
Components	Туре	Value	
Tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm	
,	TWA	100 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	25 ppm	

# **Biological limit values**

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichlorometha ne	Urine	*
Tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*
·	3 ppm	Tetrachloroethy lene	End-exhaled air	*

<sup>\* -</sup> For sampling details, please see the source document.

# Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to

maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles). A full face shield

may also be necessary.

Eye wash fountain is recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Wear as appropriate: Polyvinyl alcohol (PVA).

Responder. Silver Shield/4H(TM) (polyethylene/ethylene vinyl alcohol). Advice should be sought

from glove suppliers.

Other Wear suitable protective clothing. Where extensive exposure to product is possible, use resistant

coveralls, apron and boots to prevent contact.

Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Advice should be sought from respiratory protection specialists.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not breathe vapor. Avoid contact with eyes, skin and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state

Transparent liquid. **Form** 

Color Colorless. Odor Irritating. Odor threshold Not available. Not available. Hq

> -58 °F (> -50 °C) Melting point/freezing point

Initial boiling point and boiling 105 - 305 °F (40.56 - 151.67 °C)

range

> 212.0 °F (> 100.0 °C) Tag Closed Cup Flash point

**Evaporation rate** 10 (N-butyl acetate = 1)

Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

14 % @ 25℃ 22 % @ 25°C

Flammability limit - upper (%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure 205.57 mm Hg

Vapor density 3.12

Relative density Not available.

Solubility(ies)

< 0.1 % (Negligible) Solubility (water) Not available.

Partition coefficient (n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Not explosive. **Explosive properties** None known. Oxidizing properties

1.26 Specific gravity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. May

hydrolyze very slowly in the presence of water to form acids.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

reactions

occur.

Do not use in areas without adequate ventilation. Avoid high temperatures. Avoid contact with Conditions to avoid

incompatible materials. Protect from moisture.

Strong acids. Strong bases. Strong oxidizing agents. Amines. Reactive metals. Incompatible materials

Hazardous decomposition

None known, refer to hazardous combustion products in Section 5.

products

# 11. Toxicological information

### Information on likely routes of exposure

Ingestion Harmful if swallowed. May cause irritation of the gastrointestinal tract.

Inhalation May cause irritation to the respiratory system. May cause central nervous system effects.

Material name: TS-3 SDS US 5/12 1699 Version #: 02 Issue date: 08-01-2019

Skin contact Causes severe skin irritation. May cause moderate eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding. Causes respiratory tract irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

May cause cancer. Symptoms may include pain, nausea, weight loss, yellowing of the skin,

fatigue, headache, behavioral changes and various other symptoms.

May cause damage to the liver and kidneys through prolonged or repeated exposure. Symptoms may include weakness, weight loss, nausea, abnormal heart rhythms and jaundice.

### Information on toxicological effects

**Acute toxicity** 

Harmful if swallowed. The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values.

Product	Species	Test Results
ΓS-3 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2232 mg/kg
Inhalation		
LC50	Rat	58.1 mg/l, 4 hours (Vapor)
Oral		
LD50	Rat	1468 mg/kg
Components	Species	Test Results
Methylene chloride (CAS 75	-09-2)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	22170 ppm, 4 hours (Vapor)
		77.01 mg/l, 4 hours (Vapor)
Oral		
LD50	Rat	> 2000 mg/kg (averaged male/female value)
		2280 mg/kg (male)
		1400 mg/kg (female)
Solvent Naphtha (petroleum	), Light Aliphatic (CAS 64742-89-8)	
Acute		
Dermal		
LD50	Rabbit	> 4000 mg/kg
Inhalation		
LC50	Rat	> 23 mg/l, 4 hours (vapor)
Oral		
LD50	Rat	> 8000 mg/kg
etrachloroethylene (CAS 12	27-18-4)	
Acute		
Dermal		
LD50	Rabbit	> 3245 mg/kg
Inhalation		
LC50	Mouse	2613 ppm, 4 Hours (Vapor)
		17.7 mg/l, 4 Hours (Vapor)

Material name: TS-3 1699 Version #: 02 Issue date: 08-01-2019 Components
Species
Test Results

Rat
3786 ppm, 4 hours (Vapor)
25.7 mg/l, 4 hours (Vapor)

Skin corrosion/irritation Hazardous by OSHA criteria. Classification:

Rat

Skin corrosion/irritiation - Category 2. Causes skin irritation.

Serious eye damage/eye Hazardous by OSHA criteria. Classification:

irritation Eye damage/irritation - Category 2A. Causes serious eye irritation.

Respiratory or skin sensitization

LD50

**Respiratory sensitization** Not expected to be a respiratory sensitizer.

**Skin sensitization** Not expected to be hazardous by OSHA criteria. Not expected to be a skin sensitizer.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Hazardous by OSHA criteria. Classification:

Carcinogenicity - Category 1B. May cause cancer. Contains: Methylene chloride.

2600 mg/kg

Tetrachloroethylene. See below for ingredients present on regulatory lists.

IARC Monographs. Overall Evaluation of Carcinogenicity

Methylene chloride (CAS 75-09-2)

ZB Possibly carcinogenic to humans.

Tetrachloroethylene (CAS 127-18-4)

2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2)

Cancer

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Methylene chloride (CAS 75-09-2)

Reasonably Anticipated to be a Human Carcinogen.

Tetrachloroethylene (CAS 127-18-4)

Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Hazardous by OSHA criteria. Classification:

Specific Target Organ Toxicity (STOT), Single Exposure; Category 3. May cause respiratory

irritation. May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Hazardous by OSHA criteria. Classification:

Specific Target Organ Toxicity (STOT), Repeated Exposure; Category 2. May cause damage to

the liver and kidneys through prolonged or repeated exposure. Contains: Methylene chloride.

Tetrachloroethylene.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Prolonged exposure may cause chronic effects. Kidney injury may occur. Liver injury may occur.

Aspiration toxicity Not expected to be hazardous by OSHA criteria.

# 12. Ecological information

**Ecotoxicity**No data is available on the product itself. The product should not be allowed to enter drains, water

courses or the soil. Components of this product are hazardous to aquatic life. See below for

individual ingredient ecotoxicity data.

Components		Species	Test Results
Methylene chloride (CAS	3 75-09-2)		
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	662 mg/l
Crustacea	EC50	Water flea (Daphnia magna)	27 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	193 mg/l, 96 hours
Chronic			
Algae	NOEC	Green algae (Selenastrum capricornutum)	56 mg/l, 96 hours
Crustacea	NOEC	Water flea (Daphnia magna)	6.2 - 13.3 mg/l, 21 days
Fish	NOEC	Fathead minnow (Pimephales promelas)	83 mg/l, 28 days

Components Species Test Results

Solvent Naphtha (petroleum), Light Aliphatic (CAS 64742-89-8)

Aquatic

Acute

Algae EC50 Green algae (Selenastrum 45 mg/l, 96 hours

capricornutum)

Crustacea EC50 Water flea (Daphnia magna) 32 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 8.2 mg/l, 96 hours

Chronic

Algae NOEC Green algae (Selenastrum 18 mg/l, 96 hours

capricornutum)

Crustacea NOEC Water flea (Daphnia magna) 2.6 mg/l, 21 days

Tetrachloroethylene (CAS 127-18-4)

Aquatic

Acute

AlgaeEC50Algae3.64 mg/l, 72 hoursCrustaceaEC50Water flea (Daphnia magna)8.5 mg/l, 48 hoursFishLC50Rainbow trout,donaldson trout5 mg/l, 96 hours

(Oncorhynchus mykiss)

Chronic

Crustacea NOEC Water flea (Daphnia magna) 0.51 mg/l, 28 days

**Persistence and degradability** No data is available on the degradability of this product.

Contains the following chemicals which are considered to be readily biodegradable: Solvent

naphtha (petroleum), light aliphatic.

Contains the following chemicals which are not considered to be readily biodegradable: Methylene

chloride. Tetrachloroethylene.

**Bioaccumulative potential**The product itself has not been tested. See the following data for ingredient information.

Partition coefficient n-octanol / water (log Kow)

Methylene chloride 1.25

Solvent Naphtha (petroleum), Light Aliphatic 2.1 - 6, (Category read across)

Tetrachloroethylene 3.4

**Bioconcentration factor (BCF)** 

Methylene chloride 6.4 - 40

Solvent Naphtha (petroleum), Light Aliphatic 129 - 576 (Category read across)

Tetrachloroethylene

Species: Bluegill (Lepomis macrochirus)

**Mobility in soil** The product itself has not been tested.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

Methylene chloride (CAS 75-09-2) U080 Tetrachloroethylene (CAS 127-18-4) U210

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

UN2810 **UN** number

**UN proper shipping name** Toxic, liquids, organic, n.o.s. (Dichloromethane; Tetrachloroethylene)

Transport hazard class(es)

6.1(PGIII) Class Subsidiary risk None. Label(s) 6.1 **Packing group** Ш **Environmental hazards** 

Marine pollutant No

Read safety instructions, SDS and emergency procedures before handling. Special precautions for user

US CERCLA Reportable Quantity (RQ): Methylene chloride. 1000 lbs / 454 kg;

Tetrachloroethylene. 100 lbs / 45.4 kg

IB3, T7, TP1, ŤP28 Special provisions

Packaging exceptions 153 Packaging non bulk 203 Packaging bulk 241

IATA

**UN** number UN2810

**UN proper shipping name** Transport hazard class(es) Toxic, liquids, organic, n.o.s. (Dichloromethane; Tetrachloroethylene)

Class 6.1(PGIII) Subsidiary risk None. Label(s) 6.1 Packing group Ш **Environmental hazards** No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and

Operator Variations, prior to shipping this material.

Other information

**Class** 

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

**IMDG** 

**UN** number UN2810 Toxic, liquids, organic, n.o.s. (Dichloromethane; Tetrachloroethylene)

**UN proper shipping name** 

Transport hazard class(es)

6.1(PGIII) None. 6.1

Label(s) Packing group Ш

**Environmental hazards** 

Subsidiary risk

Marine pollutant No F-A, S-A **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

This substance/mixture is not intended to be transported in bulk.

the IBC Code

DOT



Material name: TS-3 SDS US 9/12 1699 Version #: 02 Issue date: 08-01-2019

# IATA; IMDG



**General information** 

This product does not meet the criteria for an environmentally hazardous mixture, according to the

IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

# U.S. - TSCA (Toxic Substances Control Act) - Section 6 (see 40 CFR 751)

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Methylene chloride (CAS 75-09-2) Listed. Tetrachloroethylene (CAS 127-18-4) Listed.

# SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2) Cancer

Heart

Central nervous system

Skin irritation Eye irritation

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

# SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No

Methylene chloride (CAS 75-09-2) Tetrachloroethylene (CAS 127-18-4)

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US** state regulations

### **US. Massachusetts RTK - Substance List**

Methylene chloride (CAS 75-09-2) Tetrachloroethylene (CAS 127-18-4)

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

Methylene chloride (CAS 75-09-2) Tetrachloroethylene (CAS 127-18-4)

# US. Pennsylvania Worker and Community Right-to-Know Law

Methylene chloride (CAS 75-09-2) Tetrachloroethylene (CAS 127-18-4)

# **US. Rhode Island RTK**

Methylene chloride (CAS 75-09-2) Tetrachloroethylene (CAS 127-18-4)

# **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Methylene chloride (CAS 75-09-2) Listed: April 1, 1988 Tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

# **International Inventories**

Country(s) or region

	inventory name	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

**Issue date** 07-21-2014

Version # 01

United States & Puerto Rico

Material name: TS-3 SDS US

Yes

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980

CFR: Code of Federal Regulations DOT: Department of Transportation EPA: Environmental Protection Agency

EPCRA: Emergency Planning and Community Right-to-Know Act

ERG: Emergency Response Guidebook HSDB® - Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Air Transport Association IBC: Intermediate Bulk Container

IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co operation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

RQ: Reportable Quantity

RTECS: Registry of Toxic Effects of Chemical Substances

SCBA: self-contained breathing apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average

**UN: United Nations** 

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014)

Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014

(Chempendium, RTECs, HSDB, INCHEM)

International Agency for Research on Cancer Monographs (2014)

Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

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References

Material name: TS-3