

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: LPS® Tapmatic Dual Action Plus #1

Issue date: 08-17-2017

Version #: 01 SDS No: -

## 1. Chemical product and company identification

Product name LPS® Tapmatic Dual Action Plus #1

Part Number 40110, 40120, 40130

Manufacturer/Supplier ITW Pro Brands
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Tucker, GA 30084 United States

Contact person Not available.

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Emergency telephone Chemtrec 1-800-424-9300

number

Recommended use and Limitations on use

**Recommended use** A metal cutting fluid designed to simultaneously cool and lubricate to reduce friction and eliminate

chip welding in tapping, drilling, reaming, and threading.

**Issue date** 08-17-2017

## 2. Hazards identification

Emergency overview Harmful if inhaled. May be harmful if swallowed. Causes damage to organs through prolonged or

repeated exposure. May cause drowsiness and dizziness. May cause cancer. Causes eye irritation. Causes skin irritation. May cause irritation to the respiratory system. Suspected of causing genetic defects. Dangerous for the environment if discharged into watercourses.

**Hazard categories** 

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 5

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2B

Germ cell mutagenicity

Category 2

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 1 (central nervous system)

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

Harmful if inhaled.

Label elements Pictograms



Signal word Dange

**Hazard statement** 

H332

H303 May be harmful if swallowed.
H315 Causes skin irritation.
H320 Causes eye irritation.

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H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

H372

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Toxic to aquatic life. H401

Harmful to aquatic life with long lasting effects. H412

#### **Precautionary statement**

#### Prevention

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202

Do not breathe mist or vapor. P260 Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271

Avoid release to the environment. P273

Wear protective gloves/protective clothing/eye protection/face protection. P280

#### Response

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P304 + P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. P308 + P313 Call a POISON CENTER/doctor if you feel unwell. P312 If skin irritation occurs: Get medical advice/attention. P332 + P313 If eye irritation persists: Get medical advice/attention. P337 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Store locked up. P405

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Physical and chemical hazards

The product is stable and non-reactive under normal conditions of use, storage and transport. No

unusual fire or explosion hazards noted.

Health hazards Harmful if inhaled. May be harmful if swallowed. May cause damage to organs through prolonged

or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea,

vomiting. Causes skin irritation. Causes eye irritation.

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. **Environmental hazards** 

**Supplemental information** 

## 3. Composition/information on ingredients

Substance/mixture Mixture

Chemical name	Concentration (%)	<b>CAS Number</b>
1,1,2-trichloroethylene	80 - 90	79-01-6
Alkenes, polymd., chlorinated	1 - 10	68410-99-1
Methyl Oleate	1 - 10	67762-26-9
Benzyl Acetate	0.1 - 1	140-11-4
Methyl Salicylate	0.1 - 1	119-36-8

#### 4. First aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms and

health effects

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Skin irritation. May cause

redness and pain. Prolonged exposure may cause chronic effects.

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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

Notes to physician

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

**Extinguishing media** 

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Extinguishing media to avoid Specific hazards

During fire, gases hazardous to health may be formed.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

**Protection of fire-fighters** 

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

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

#### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Clean-up methods and materials and containment measures

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Prevention of secondary

Not available.

# hazards

7. Handling and storage

Handling

Storage

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

# **Exposure limits**

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	PC-TWA	30 mg/m3

#### **Biological limit values**

Components	Value	Determinant	Specimen	Sampling Time
,1,2-trichloroethylene CAS 79-01-6)	50 mg/l	Trichloroacetic acid	Urine	*
	0.3 mmol/l	Trichloroacetic acid	Urine	*

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

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
1,1,2-trichloroethylene (CAS 79-01-6)	15 mg/l	Trichloroacetic acid	Urine	*	
	0.5 mg/l	Trichloroethano I, without hvdrolvsis	Blood	*	

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

**Monitoring methods** Follow standard monitoring procedures.

Engineering measures

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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Personal protective equipment

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

**Hand protection** Wear appropriate chemical resistant gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Hygiene measures Observe any medical surveillance requirements. Keep away from food and drink. Always observe

good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state **Form** Liquid. Color Light brown. Odor Sweet. Spice. Not available. рΗ Not available. Melting point/freezing point 188.6 °F (87 °C) Boiling point, initial boiling point, and boiling range Not available. Flash point Not available. Flammability limit - lower (%) Flammability limit - upper (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. 7.7 kPa (58 mm Hg) [20°C] Vapor pressure 4.5 [Air = 1]Vapor density Relative density 1.35 Not available. Density Solubility(ies) 0.1 % w/w Solubility (water) **Partition coefficient** 2.4 (n-octanol/water)

**Auto-ignition temperature** 788 °F (420 °C) **Decomposition temperature** Not available.

**Evaporation rate** 0.3 (ether (anhydrous) = 1)

Flammability (solid, gas) Not applicable.

Other data

Explosive properties

Oxidizing properties

Viscosity

Viscosity temperature

Not explosive.

Not explosive.

Not explosive.

70 oxidizing.

73 mm²/s

77 °F (25 °C)

## 10. Stability and reactivity

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

**Stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Aluminum. Zinc. Magnesium. Metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Acute toxicity Harmful if inhaled. May be harmful if swallowed.

Components Species Test Results

1,1,2-trichloroethylene (CAS 79-01-6)

<u>Acute</u>

Oral

LD50 Rat 4920 mg/kg

Benzyl Acetate (CAS 140-11-4)

**Acute** 

Oral

LD50 Rat > 2000 mg/kg

Methyl Oleate (CAS 67762-26-9)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Methyl Salicylate (CAS 119-36-8)

Acute Oral

LD50 Rat 0.89 g/kg

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Symptoms May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral

changes. Decrease in motor functions. Irritation of eyes. Exposed individuals may experience eye

tearing, redness, and discomfort. May cause respiratory irritation. Skin irritation. May cause

redness and pain.

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

**Skin sensitizer** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** Suspected of causing genetic defects.

Carcinogenicity May cause cancer.

China OELs for hazardous agents in the workplace: Carcinogen Category

TRICHLOROETHYLENE (CAS 79-01-6) Probable human carcinogen

## IARC Monographs. Overall Evaluation of Carcinogenicity

1,1,2-trichloroethylene (CAS 79-01-6) 1 Carcinogenic to humans.

Benzyl Acetate (CAS 140-11-4) 3 Not classifiable as to carcinogenicity to humans.

Toxic to reproduction This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity following single exposure

Specific target organ toxicity following repeated exposure

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

May cause respiratory irritation. May cause drowsiness and dizziness.

## 12. Ecological information

**Ecotoxicological data** 

Components		Species	Test Results	
1,1,2-trichloroethylene (CAS 79-01-6)				
Aquatic				
Fish	LC50	Flagfish (Jordanella floridae)	3.1 mg/l, 96 hours	
Benzyl Acetate (CAS 140	-11-4)			
Aquatic				
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	3.48 - 4.6 mg/l, 96 hours	

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Persistence and degradability

**Bioaccumulation** 

Bioaccumulative potential

Octanol/water partition coefficient log Kow

LPS® Tapmatic Dual Action Plus #1 2.4 1,1,2-trichloroethylene 2.61 Benzyl Acetate 1.96 Methyl Salicylate 2.55

Mobility in soil No data available for this product.

None known. Other hazardous effects

## 13. Disposal considerations

Residual waste 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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Local disposal regulations

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. Transport information

**CNDG** 

**UN number** 

UN proper shipping name Transport hazard class(es)

Trichloroethylene mixture (1,1,2-trichloroethylene)

Class

6.1(PGIII) Subsidiary risk

Ш Packing group **Environmentally hazardous** 

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

**IATA** 

**UN number** 

**UN proper shipping name** Transport hazard class(es) Trichloroethylene (1,1,2-trichloroethylene)

Class 6.1(PGIII)

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Subsidiary risk Ш Packing group **Environmental hazards** No.

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

**IMDG** 

**UN number** UN1710

**UN proper shipping name** Transport hazard class(es) Trichloroethylene mixture (1,1,2-trichloroethylene)

6.1(PGIII) Class Subsidiary risk

**Packing group** 

**Environmental hazards** 

No.

Not established.

Ш

Marine pollutant **EmS** F-A, S-A

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

the IBC Code

CNDG; IATA; IMDG

country(s).



## 15. Regulatory information

#### **Inventory of Existing Chemical Substances in China**

Country(s) or region Inventory name On inventory (yes/no)\* China Inventory of Existing Chemical Substances in China (IECSC)

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

This safety data sheet conforms to the following laws, regulations and standards: Applicable regulations

Regulations on the Control over Safety of Dangerous Chemicals

Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

Measures for the Safe Use of Chemicals in Workplaces

Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008) General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009)

Packing Symbol of Dangerous Goods(GB190-2009)

Packing - Pictorial Marking for Handling of Goods (GB/T191-2009)

#### General Rule For Classification and Hazard Communication of Chemicals (GB 13690-2009) and Catalog of Hazardous Chemicals

1,1,2-trichloroethylene (CAS 79-01-6)

Occupational exposure limits for hazardous agents in the workplace (GBZ 2.1-2007)

1,1,2-trichloroethylene (CAS 79-01-6)

## National Catalogue of Hazardous Waste, Appendix A

1.1.2-trichloroethylene (CAS 79-01-6)

Restricted Import/Export Toxic Chemical List (MEP and GCA Announcement No. 2008-66, Dec. 1, 2008, amended through MEP and Customs Notice No. 2013-85, December 30, 2013)

1,1,2-trichloroethylene (CAS 79-01-6)

## Classification and code of dangerous goods (GB 6944-2012)

Regulated.

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#### List of Dangerous Goods (GB 12268-2012)

Regulated.

The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T15098-2008)

Regulated.

General Specifications for Transport Packages of Dangerous Goods (GB 12463-2009)

Regulated.

**Regulations on Road Transport of Dangerous Goods** 

Regulated.

**Regulations on Rail Road Transport of Dangerous Goods** 

Regulated.

**UN Recommendations on the Transport of Dangerous Goods (UN RTDG)** 

Regulated.

## 16. Other information

References EPA: AQUIRE database

GB6944-2012: Classification and Code of Dangerous Goods.

GB12268-2012: List of Dangerous Goods. NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

**Disclaimer** ITW Pro Brands cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.