

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

Revision date: 04-23-2021

Version #: 02 SDS No: -

SECTION 1 Chemical product and company identification

NEEDED - CHINESE NAME OR TRADE NAME WITH CHINESE USER DESCRIPTOR. Chinese name of chemical

English name of chemical LPS® Tapmatic Dual Action Plus #1

Part Number 40110, 40120, 40130

Manufacturer/Supplier **ITW Pro Brands**

Address 4647 Hugh Howell Rd

Tucker, GA 30084

United States

Not available. **Contact person**

1-800-241-8334 / 770-243-8800 Telephone

lpssds@itwprobrands.com e-mail

Emergency telephone

number

Chemtrec 1-800-424-9300

Recommended use and Limitations on use

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

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

Issue date 08-17-2017 **Revision date** 04-23-2021 Supersedes date 08-17-2017

SECTION 2 Hazards identification

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

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

GHS 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

Label elements **Pictograms**



Signal word Danger

Hazard statement

SDS CHINA 1586

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
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.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement

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P201 Obtain special instructions before use.

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

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

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

P273 Avoid release to the environment.

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

Response

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

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

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

Storage

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

P405 Store locked up.

Disposal

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

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.

Environmental hazardsToxic to aquatic life. Harmful to aquatic life with long lasting effects.

Supplemental information None.

SECTION 3 Composition/information on ingredients

Substance/mixture	Mixture
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Chemical name	Concentration (%)	CAS Number
1,1,2-三氯乙烯	80 - 90	79-01-6
1,1,2-trichloroethylene		
烯烃 , polymd., chlorinated Alkenes, polymd., chlorinated	1 - 10	68410-99-1
油酸甲酯 Methyl Oleate	1 - 10	67762-26-9
乙酸苄酯 Benzyl Acetate	0.1 - 1	140-11-4
水杨酸甲酯 Methyl Salicylate	0.1 - 1	119-36-8

SECTION 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.

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

Ingestion

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 attendance

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim Notes to physician

under observation. Symptoms may be delayed.

SECTION 5 Fire-fighting measures

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

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed. Specific hazards

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.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away.

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

Prevention of secondary

hazards

Not available.

SECTION 7 Handling and storage

Handling 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. Storage

SDS CHINA

SECTION 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

China. Biological limit values for occupational exposure (WS/T 110 to 115, 239 to 243, and 264 to 267)					
Components	Value	Determinant	Specimen	Sampling Time	
1,1,2-trichloroethylene (CAS 79-01-6)	50 mg/l	Trichloroacetic acid	Urine	*	
	0.3 mmol/l	Trichloroacetic acid	Urine	*	

^{* -} For sampling details, please see the source document.

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 hydrolysis	Blood	*

^{* -} 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.

SECTION 9 Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Light brown.
Odor	Sweet. Spice.
pH	Not available.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	188.6 °F (87 °C)
Flash point	None.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure 7.7 kPa (58 mm Hg) [20°C]

Vapor density 4.5 [Air = 1]
Relative density 1.35

Density Not available.

Solubility(ies)

Solubility (water) 0.1 % w/w

Partition coefficient (n-octanol/water)

2.4

Auto-ignition temperature788 °F (420 °C)Decomposition temperatureNot available.

Evaporation rate 0.3 (ether (anhydrous) = 1)

Flammability (solid, gas) Not applicable.

Other data

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Viscosity < 3 mm²/s

Viscosity temperature 77 °F (25 °C)

SECTION 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

Carbon oxides.

SECTION 11 Toxicological information

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

Rat

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Components	Species	Test Results		
1,1,2-trichloroethylene (Ca	AS 79-01-6)			
<u>Acute</u>				
Oral				
LD50	Rat	4900 mg/kg		
Benzyl Acetate (CAS 140-	-11-4)			
Acute				
Dermal				
LD50	Rabbit	> 5 g/kg		
Oral				
LD50	Rat	> 2000 mg/kg		
Methyl Oleate (CAS 6776	2-26-9)			
<u>Acute</u>				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
Oral				
LD50	Rat	> 5000 mg/kg		
Methyl Salicylate (CAS 11	9-36-8)			
<u>Acute</u>				
Oral				
	_			

Inhalation. Ingestion. Skin contact. Eye contact.

0.89 g/kg

LD50

Routes of exposure

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 Serious eye damage/eye Causes skin irritation.
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) Carcinogenic to humans.

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 reproductionThis product is not expected to cause reproductive or developmental effects.

Species

Specific target organ toxicity following single exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity following repeated exposure

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

Test Results

Aspiration hazard Not an aspiration hazard.

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

harmful.

SECTION 12 Ecological information

Ecotoxicological data

Components

Components		Opcoics	rest results
1,1,2-trichloroethylene (C	CAS 79-01-6)		
Aquatic			
Acute			
Fish	LC50	Flagfish (Jordanella floridae)	3.1 mg/l, 96 hours
Benzyl Acetate (CAS 140)-11-4)		
Aquatic			
Acute			
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.

Other hazardous effects None known.

SECTION 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).

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

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

disposal.

Local disposal regulations

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

SECTION 14 Transport information

CNDG

UN number UN1710

UN proper shipping name

Trichloroethylene mixture (1,1,2-trichloroethylene)

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш **Packing group Environmentally hazardous** No

Special precautions for user Not available.

IATA

UN1710 **UN** number

UN proper shipping name

Trichloroethylene (1,1,2-trichloroethylene)

Transport hazard class(es) Class

6.1 Subsidiary risk Ш Packing group **Environmental hazards** Nο

Special precautions for user Not available.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

IMDG

UN1710

UN number

Trichloroethylene mixture (1,1,2-trichloroethylene) **UN** proper shipping name

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No. F-A, S-A Special precautions for user Not available. Not applicable.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

CNDG; IATA; IMDG



SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Classification of occupational disease hazards

BENZYL ACETATE (CAS 140-11-4) TRICHLOROETHYLENE (CAS 79-01-6)

Regulations on the Control over Safety of Dangerous Chemicals

Catalog of Hazardous Chemicals

TRICHLOROETHYLENE (CAS 79-01-6)

Provision on the Environmental Administration of New Chemical Substances

China Inventory of Existing Chemical Substances

Country(s) or region Inventory name On inventory (yes/no)*

China Inventory of Existing Chemical Substances in China

Yes

(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 country(s).

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

Provide the Control of Control of

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)

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable. Basel Convention

Not applicable.

SECTION 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.

Revision information Physical & Chemical Properties: Multiple Properties