

SAFETY DATA SHEET

1. Identification

Product identifier	LPS® Max KB88
Other means of identification	
Part Number	92316
Recommended use	A high performance penetrant designed to loosen metal parts.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Manufacturer	
Company name	ITW Pro Brands
Address	4647 Hugh Howell Rd.
	Tucker, GA 30084
Country	(U.S.A.)
	Tel: +1 770-243-8800
In Case of Emergency	1-800-424-9300 (inside U.S.)
	+001 703-527-3887 (outside U.S.)
Website	www.lpslabs.com
E-mail	lpssds@itwprobrands.com
2. Hazard(s) identification	

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
Storage	Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Combustible.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates Petroleum Hydrotreated Light		64742-47-8	20 - 30
Solvent Naphtha (petroleum), Heavy Arom.		64742-94-5	20 - 30
Distillates Petroleum Hydrotreated Med		64742-46-7	1 - 10
Carbon Dioxide		124-38-9	1 - 5
1,2,4-Trimethylbenzene		95-63-6	0.1 - 1
Distillates (petroleum), Hydrotreated Heavy Naphthenic		64742-52-5	0.1 - 1
Distillates Petroleum Hydrotreated Heavy		64742-54-7	0.1 - 1
4-Methylpentan-2-one		108-10-1	0.08

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Dry chemicals. 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	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	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	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.	
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.	
6. Accidental release measures		

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	PEL	5 mg/m3	Oil mist
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
4-Methylpentan-2-one (CAS 108-10-1)	PEL	410 mg/m3	
		100 ppm	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
ACGIH			
Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
US. ACGIH Threshold Limit Values	i		
Components	Туре	Value	
4-Methylpentan-2-one (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
4-Methylpentan-2-one (CAS 108-10-1)	STEL	300 mg/m3	
		75 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

US. NIOSH: Pocket Guide to Components	Chemical Hazards Type		v	/alue
	TWA			205 mg/m3
			Ę	50 ppm
Carbon Dioxide (CAS 124-38-9)	STEL		Ę	54000 mg/m3
			:	30000 ppm
	TWA		(9000 mg/m3
			Ę	5000 ppm
ological limit values				
ACGIH Biological Exposure	Indices			
	alue	Determinant	Specimen	Sampling Time
4-Methylpentan-2-one (CAS1 108-10-1)	mg/l	Methyl isobutyl ketone	Urine	*
* - For sampling details, pleas	e see the source docu	ment.		
propriate engineering ntrols	should be matched t or other engineering exposure limits have	o conditions. If app controls to maintai e not been establish	licable, use p n airborne lev led, maintain	r hour) should be used. Ventilation rates rocess enclosures, local exhaust ventilation, /els below recommended exposure limits. If airborne levels to an acceptable level.
dividual protection measures, Eye/face protection	such as personal pro Wear safety glasses			
Skin protection				
Hand protection	Wear appropriate ch	emical resistant glo	oves.	
Other	Wear suitable protect	ctive clothing.		
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.			
Thermal hazards	Wear appropriate the	ermal protective clo	thing, when r	necessary.
eneral hygiene nsiderations	When using do not smoke. 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.			
Physical and chemical p	properties			
pearance	•			
Physical state	Gas.			
Form	Aerosol.			
Color	Clear to light amber			
lor	Hydrocarbon-like.			
lor threshold	Not available.			
	Not applicable			
elting point/freezing point	Not available.			
tial boiling point and boiling	Not available.			
ash point	159.8 °F (71.0 °C) T	ag Closed Cup		
aporation rate	< 0.1 BuAc	0		
ammability (solid, gas)	Flammable gas.			
oper/lower flammability or exp	-			
Flammability limit - lower (%)	0.6 %			
Flammability limit - upper (%)	11.7 %			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			

Vapor density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	> 420 °F (> 215.56 °C)
Decomposition temperature	Not available.
Viscosity	Low viscosity comparable to water (water = 1cST @ 20°C)
Other information	
Density	7.30 lb/gal
Explosive properties	Not explosive.
Heat of combustion	> 30 kJ/g
Oxidizing properties	Not oxidizing.
Percent volatile	92 %
Specific gravity	0.88 @23°C
VOC	24 % per U.S. State and Federal Consumer Product Regulations

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways.		
Components Species		Test Results	
1,2,4-Trimethylbenzene (0	CAS 95-63-6)		
Acute			
Dermal			
LD50	Rabbit	> 3200 mg/kg	
Inhalation			
LC50	Rat	10000 mg/m3, 4 Hours	
Oral			
LD50	Rat	3300 mg/kg	

Components	Species	Test Results	
4-Methylpentan-2-one (CAS 108	-10-1)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 16000 mg/kg	
Inhalation			
LC50	Rat	8.2 mg/l, 4 Hours	
Distillates (petroleum), Hydrotrea	ated Heavy Naphthenic (CAS 64	742-52-5)	
<u>Acute</u>			
Dermal LD50	Rabbit	> 2000 mg/kg	
	Γαυσιί	> 2000 mg/kg	
Oral LD50	Rat	> 2000 mg/kg	
		> 2000 Hig/kg	
Distillates Petroleum Hydrotreate Acute	ed Light (CAS 64742-47-8)		
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
Vapor			
LC50	Rat	> 0.1 mg/l, 8 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
Distillates Petroleum Hydrotreate	ed Med (CAS 64742-46-7)		
Acute	, , , , , , , , , , , , , , , , , , ,		
Dermal			
LD50	Rabbit	> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Rat	7600 mg/m3, 4 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
Solvent Naphtha (petroleum), He	eavy Arom. (CAS 64742-94-5)		
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours	
Inhalation			
Vapor	Det		
LC50	Rat	> 0.1 mg/l, 8 Hours	
Oral	Det	> 2000 mallia	
LD50	Rat	> 2000 mg/kg	
Skin corrosion/irritation	• •	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitizati	on		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcine	genicity to humans.	
ACGIH Carcinogens			

IARC Monographs. Overall I	Evaluation of (Carcinogenicity		
4-Methylpentan-2-one (C	,	2B Possibly carcinogeni	c to humans.	
OSHA Specifically Regulate Not listed.	d Substances	(29 CFR 1910.1001-1053)		
US. National Toxicology Pro Not listed.	ogram (NTP) R	eport on Carcinogens		
Reproductive toxicity	This product	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified	J.		
Aspiration hazard	May be fatal	May be fatal if swallowed and enters airways.		
Chronic effects	Prolonged in	Prolonged inhalation may be harmful.		
Further information	None known.			
12. Ecological information	ı			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Components		Species	Test Results	
1,2,4-Trimethylbenzene (CAS	95-63-6)			
Aquatic				
<i>Acute</i>	LC50	Eathard minney (Dimenholes promotes)	7 10 9 28 mg/l 06 hours	
-		Fathead minnow (Pimephales promelas)	7.19 - 6.26 High, 96 Hours	
4-Methylpentan-2-one (CAS 1 Aquatic	100-10-1)			
Acute				
Fish	LC50	Fathead minnow (Pimephales promelas)	9 492 - 593 mg/l, 96 hours	
Distillates Petroleum Hydrotre	eated Light (CA	S 64742-47-8)		
Aquatic				
<i>Acute</i> Fish	1.050	Diversill (Lenemia magrachirus)		
-	LC50	Bluegill (Lepomis macrochirus)	2.2 mg/l, 4 days	
Persistence and degradability Bioaccumulative potential	No data is av	vailable on the degradability of any ingredie	ints in the mixture.	
Partition coefficient n-octan	ol / water (log	Kow)		
1,2,4-Trimethylbenzene		3.78		
4-Methylpentan-2-one Mobility in soil	1.31 Not established.			
Other adverse effects		The product contains volatile organic compounds which have a photochemical ozone creation		
	potential.			
13. Disposal consideration	ns			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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. D003: Waste Reactive material			
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	emptied. Em	ed containers may retain product residue, fo pty containers should be taken to an approving not re-use empty containers.		

14. Transport information

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DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
-	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
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	Not applicable.
the IBC Code	
DOT	





General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed.

4-Methylpentan-2-one (CAS 108-10-1) SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

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

4-Methylpentan-2-one (CAS 108-10-1)

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
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Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

4-Methylpentan-2-one (CAS 108-10-1) 6715 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) 4-Methylpentan-2-one (CAS 108-10-1) 35 %WV DEA Exempt Chemical Mixtures Code Number 4-Methylpentan-2-one (CAS 108-10-1) 6715 FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace 4-Methylpentan-2-one (CAS 108-10-1) Low priority US state regulations US. New Jersey Worker and Community Right-to-Know Act

1,2,4-Trimethylbenzene (CAS 95-63-6)

4-Methylpentan-2-one (CAS 108-10-1)

California Proposition 65



WARNING: This product can expose you to 4-Methylpentan-2-one, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

4-Methylpentan-2-one (CAS 108-10-1) Listed: November 4, 2011

California Proposition 65 - CRT: Listed date/Developmental toxin

4-Methylpentan-2-one (CAS 108-10-1) Listed: March 28, 2014

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,2,4-Trimethylbenzene (CAS 95-63-6) 4-Methylpentan-2-one (CAS 108-10-1) Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7) Distillates Petroleum Hydrotreated Med (CAS 64742-46-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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).

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

Issue date	07-19-2021
Version #	01
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 provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Alternate Trade Names Physical and chemical properties: Color HazReg Data: International Inventories