

# LPS® F-104 (Aerosol)

# **ITW Pro Brands**

Part Number: **04920**, **C04920** Version No: **2.3** Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **17/04/2023** Print Date: **17/04/2023** S.GHS.USA.EN

# **SECTION 1 Identification**

#### **Product Identifier**

Product name LPS® F-104 (Aerosol)  Proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)		
		LPS® F-104 (Aerosol)
		Aerosols, flammable, (each not exceeding 1 L capacity)
	Other means of identification	Not Available

#### Recommended use of the chemical and restrictions on use

	F. J. J. (2) 111 - 0.1
Relevant identified uses	For Industrial Use Only
Neievant identified uses	Application is by spray atomisation from a hand held aerosol pack

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ITW Pro Brands
Address	4647 Hugh Howell Rd. Tucker, GA 30084 United States
Telephone	770-243-8800
Fax	770-243-8899
Website	www.itwprobrands.com
Email	lpssds@itwprobrands.com

### **Emergency phone number**

	Association / Organisation	Chemtrec
	Emergency telephone numbers	1-800-424-9300 (inside U.S.)
	Other emergency telephone numbers	Not Available

# SECTION 2 Hazard(s) identification

# Classification of the substance or mixture

Classification	Serious Eye Damage/Eye Irritation Category 2A, Aerosols Category 1, Skin Corrosion/Irritation Category 2, Gases Under Pressure (Compressed
Ciassification	Gas). Sensitisation (Skin) Category 1. Aspiration Hazard Category 1.

# Label elements

Hazard pictogram(s)









Signal word Danger

#### Hazard statement(s)

nazaru statement(s)		
H319 Causes serious eye irritation.		
H222	Extremely flammable aerosol.	
H315	Causes skin irritation.	
H280	Contains gas under pressure; may explode if heated.	
H317	May cause an allergic skin reaction.	
H304	May be fatal if swallowed and enters airways.	

### Hazard(s) not otherwise classified

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Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.	
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing gas.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P331	Do NOT induce vomiting.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

# Precautionary statement(s) Storage

P405	Store locked up.	
P410+P403 Protect from sunlight. Store in a well-ventilated place.		
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
56539-66-3	10-30	3-methoxy-3-methyl-1-butanol
5989-27-5*	10-30	d-limonene
64742-47-8*	60-80	Petroleum Distillates light*
124-38-9.*	1-5	carbon dioxide

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Not considered a normal route of entry.

# **SECTION 4 First-aid measures**

Description	of first	aid	measures

Ingestion

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	If aerosols, fumes or combustion products are inhaled:  Remove to fresh air.  Lay patient down. Keep warm and rested.  Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.  If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.  Transport to hospital, or doctor.

If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of

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Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Special protective equipment and precautions for fire-fighters

#### GENERAL

-----

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Consider evacuation
- Fight fire from a safe distance, with adequate cover.
- If safe, switch off electrical equipment until vapour fire hazard removed.
- ▶ Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach cylinders suspected to be hot.
- Cool fire-exposed cylinders with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

#### FIRE FIGHTING PROCEDURES:

#### Fire Fighting

- ▶ The only safe way to extinguish a flammable gas fire is to stop the flow of gas.
- If the flow cannot be stopped, allow the entire contents of the cylinder to burn while cooling the cylinder and surroundings with water from a suitable distance.
- Extinguishing the fire without stopping the gas flow may permit the formation of ignitable or explosive mixtures with air. These mixtures may propagate to a source of ignition.

# SPECIAL HAZARDS

- Excessive pressures may develop in a gas cylinder exposed in a fire; this may result in explosion.
- Cylinders with pressure relief devices may release their contents as a result of fire and the released gas may constitute a further source of hazard for the fire-fighter.
- Cylinders without pressure-relief valves have no provision for controlled release and are therefore more likely to explode if exposed to fire.

# FIRE FIGHTING REQUIREMENTS:

The need for proximity, entry and flash-over protection and special protective clothing should be determined for each incident, by a competent fire-fighting safety professional.

# Liquid and vapour are highly flammable

- Severe fire hazard when exposed to heat or flame.
- Vapour forms an explosive mixture with air.
- Severe explosion hazard, in the form of vapour, when exposed to flame or spark.
- Vapour may travel a considerable distance to source of ignition.
   Heating may course expansion or decomposition with yielent control.
- Heating may cause expansion or decomposition with violent container rupture.
- Aerosol cans may explode on exposure to naked flames.
   Rupturing containers may rocket and scatter burning materials
- Hazards may not be restricted to pressure effects.
- May emit acrid, poisonous or corrosive fumes.
   On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include: carbon monoxide (CO)

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

# **SECTION 6 Accidental release measures**

Fire/Explosion Hazard

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

Methods and material for containment and cleaning up

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Clean up all spills immediately.

- Avoid breathing vapours and contact with skin and eyes.
- Wear protective clothing, impervious gloves and safety glasses
- Shut off all possible sources of ignition and increase ventilation.
- Wipe up.

**Minor Spills** 

**Major Spills** 

- If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.
- Undamaged cans should be gathered and stowed safely.

#### ▶ DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water courses
- No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- ▶ Water spray or fog may be used to disperse / absorb vapour.
- Absorb or cover spill with sand, earth, inert materials or vermiculite.
- If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
- Undamaged cans should be gathered and stowed safely.
- ► Collect residues and seal in labelled drums for disposal.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

Safe handling

#### Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- When handling, **DO NOT** eat, drink or smoke.
- DO NOT incinerate or puncture aerosol cans.
- DO NOT spray directly on humans, exposed food or food utensils.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

#### F Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area

- DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources.
- ► Keep containers securely sealed. Contents under pressure.
- Store away from incompatible materials Other information
  - Store in a cool, dry, well ventilated area Avoid storage at temperatures higher than 40 deg C.
  - Store in an upright position.
  - Protect containers against physical damage.
  - Check regularly for spills and leaks.
  - Observe manufacturer's storage and handling recommendations contained within this SDS.
  - NFPA 30B Storage Level: 3

### Conditions for safe storage, including any incompatibilities

# Suitable container

- Aerosol dispenser.
- Check that containers are clearly labelled.

#### Storage incompatibility

- ► Avoid reaction with oxidising agents
- Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances















- Must not be stored together

- May be stored together with specific preventions
- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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#### **Control parameters**

#### Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Petroleum Distillates light*	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	carbon dioxide	Carbon dioxide	5000 ppm / 9000 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	carbon dioxide	Carbon dioxide	5000 ppm / 9000 mg/m3	54000 mg/m3 / 30000 ppm	Not Available	Not Available

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
d-limonene	15 ppm	67 ppm	170 ppm
Petroleum Distillates light*	140 mg/m3	1,500 mg/m3	8,900 mg/m3

Ingredient	Original IDLH	Revised IDLH
3-methoxy-3-methyl-1-butanol	Not Available	Not Available
d-limonene	Not Available	Not Available
Petroleum Distillates light*	2,500 mg/m3	Not Available
carbon dioxide	40,000 ppm	Not Available

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
3-methoxy-3-methyl-1-butanol	E	≤ 0.1 ppm	
d-limonene	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator, Correct fit is essential to obtain adequate protection.

Provide adequate ventilation in warehouse or closed storage areas.

Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

#### Appropriate engineering controls

Type of Contaminant:	Speed:
aerosols, (released at low velocity into zone of active generation)	0.5-1 m/s
direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

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









#### Eye and face protection

- Safety glasses with side shields.
- Chemical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing

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	the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	NOTE:  The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.  Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.  No special equipment needed when handling small quantities.  OTHERWISE:  For potentially moderate exposures:  Wear general protective gloves, eg. light weight rubber gloves.  For potentially heavy exposures:  Wear chemical protective gloves, eg. PVC. and safety footwear.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Skin cleansing cream.  Eyewash unit.  Do not spray on hot surfaces.

# Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Colourless		
Physical state	Compressed Gas	Relative density (Water = 1)	0.75-0.85
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	40.00	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC %	97.2

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Elevated temperatures.     Presence of open flame.     Product is considered stable.     Hazardous polymerisation will not occur.

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Legend:

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Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

ECTION 11 Toxicological i	nformation				
formation on toxicological e	ffects				
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  The vapour is discomforting  WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.				
Ingestion	Not normally a hazard due to physical form of product.  Considered an unlikely route of entry in commercial/industrial environments  Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.  (ICSC13733)				
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  Spray mist may produce discomfort  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Еуе	This material can cause eye irritation and damage Not considered to be a risk because of the extreme				
Chronic	Skin contact with the material is more likely to caus Main route of exposure to the gas in the workplace		ction in some persons compared to	the general population.	
	TOVIDITY		IRRITATION		
LPS® F-104 (Aerosol)	Not Available		Not Available		
	TOXICITY		IRRITATION		
3-methoxy-3-methyl-1-butanol	dermal (rat) LD50: >2000 mg/kgl <sup>1</sup> ]		Eye: adverse effect observed (irritating)[1]		
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no a	dverse effect observed (not irritatin	g)[1]	
	TOXICITY	IRRITA	ATION		
	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Eye: n	o adverse effect observed (not irrita	ating)[1]	
d-limonene	Inhalation(Rat) LC50: 90860 mg/m3 <sup>[2]</sup>		rabbit): 500mg/24h moderate	<u> </u>	
	Oral (Rat) LD50: 4400 mg/kg <sup>[2]</sup>	Skin: r	no adverse effect observed (not irrit	ating) <sup>[1]</sup>	
	Oral (Rat) LD50: 5300 mg/kg <sup>[2]</sup>		,	J,	
	тохісіту	IDDIT	ATION		
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>		ATION	popular (not imitation)[1]	
Petroleum Distillates light*	Inhalation(Rat) LC50: >4.3 mg/l4h <sup>[1]</sup>	-	no adverse effect observed (not irritating) <sup>[1]</sup> adverse effect observed (irritating) <sup>[1]</sup>		
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>	OKIII. 6	daverse effect observed (irritating)-		
	TOXICITY			IRRITATION	
carbon dioxide	Inhalation (Human)LCLo: 9 pph/5 m (9%) <sup>[2]</sup>			Not Available	
	Inhalation (Human)TCLo: 2000 ppm <sup>[2]</sup>				
	Inhalation (Rat)LCLo: 657190 ppm/15 m <sup>[2]</sup>				

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	✓

Legend:

★ - Data either not available or does not fill the criteria for classification Data available to make classification

# **SECTION 12 Ecological information**

L BS® E 104 (Agreed)	Endpoint	Те	st Duration (hr)		Species		Value		Source	
LPS® F-104 (Aerosol)	Not Available Not Av		ot Available	Available Not Available		е	Not Available Not Avail		Not Avail	able
	Endpoint	Test [	Ouration (hr)	Spe	cies			Value		Source
	NOEC(ECx)	504h		Crus	tacea			100mg/l		2
nethoxy-3-methyl-1-butanol	EC50	72h		Alga	e or other aqu	atic plants		>1000n	ng/l	2
	LC50	96h		Fish				>100mg	g/l	2
	EC50	48h		Crus	tacea			>1000n	ng/l	2
	Endpoint	Test D	uration (hr)	Specie	es			Value		Source
	NOEC(ECx)	0h		Algae	Algae or other aquatic plants			<0.05-1.5mg/l		4
d-limonene	EC50	72h		Algae	Algae or other aquatic plants		0.214mg/l		2	
	LC50	96h		Fish	Fish		0.46mg/l		2	
	EC50	48h		Crustacea			0.307mg/l		2	
	Endpoint		Test Duration (hi	·)		Species		/alue	Sou	ırce
Petroleum Distillates light*	NOEC(ECx)		3072h			Fish		mg/l	1	
	LC50					Fish	2.2mg/l		4	
carbon dioxide	F. L. L.	-				0			0	
	Endpoint LC50		Test Duration (hr) 96h			Species Fish		Value Source 35mg/l 1		ce
Legend:	Extracted from 1. IU	JCLID Toxid	city Data 2. Europe E	ECHA Regist	ered Substanc	ces - Ecotoxio	cological Infori	nation - Aqua	atic Toxicity	4. US EP

# DO NOT discharge into sewer or waterways.

# Persistence and degradability

• •		
Ingredient	Persistence: Water/Soil	Persistence: Air
3-methoxy-3-methyl-1-butanol	LOW	LOW
d-limonene	HIGH	HIGH
carbon dioxide	LOW	LOW

# Bioaccumulative potential

Ingredient	Bioaccumulation
3-methoxy-3-methyl-1-butanol	LOW (LogKOW = 0.4555)
d-limonene	HIGH (LogKOW = 4.8275)
Petroleum Distillates light*	LOW (BCF = 159)
carbon dioxide	LOW (LogKOW = 0.83)

# Mobility in soil

Ingredient	Mobility
3-methoxy-3-methyl-1-butanol	HIGH (KOC = 1)
d-limonene	LOW (KOC = 1324)
carbon dioxide	HIGH (KOC = 1.498)

# **SECTION 13 Disposal considerations**

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# Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ► DO NOT incinerate or puncture aerosol cans.
- Bury residues and emptied aerosol cans at an approved site.

# **SECTION 14 Transport information**

#### **Labels Required**



Marine Pollutant

NO

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

# Land transport (DOT)

UN number or ID number	1950					
UN proper shipping name	Aerosols, flammable, (	Aerosols, flammable, (each not exceeding 1 L capacity)				
Transport hazard class(es)		2.1				
Packing group	Not Applicable					
Environmental hazard	Not Applicable	Not Applicable				
Special precautions for user	Hazard Label Special provisions	2.1 N82				

# Air transport (ICAO-IATA / DGR)

	-				
UN number	1950				
UN proper shipping name	Aerosols, flammable	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1  Not Applicable  10L			
Packing group	Not Applicable				
Environmental hazard	Not Applicable				
	Special provisions		A145 A167 A802		
	Cargo Only Packing Instructions		203		
	Cargo Only Maximum Qty / Pack		150 kg		
Special precautions for user	Passenger and Cargo	Packing Instructions	203		
	Passenger and Cargo Maximum Qty / Pack		75 kg		
	Passenger and Cargo Limited Quantity Packing Instructions		Y203		
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G		

# Sea transport (IMDG-Code / GGVSee)

UN number	1950					
UN proper shipping name	AEROSOLS	AEROSOLS				
Transport hazard class(es)		2.1 Not Applicable				
Packing group	Not Applicable	Not Applicable				
Environmental hazard	Not Applicable	Not Applicable				
Special precautions for user	EMS Number Special provisions Limited Quantities					

LPS® F-104 (Aerosol)

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#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
3-methoxy-3-methyl-1-butanol	Not Available
d-limonene	Not Available
Petroleum Distillates light*	Not Available
carbon dioxide	Not Available

### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
3-methoxy-3-methyl-1-butanol	Not Available
d-limonene	Not Available
Petroleum Distillates light*	Not Available
carbon dioxide	Not Available

# **SECTION 15 Regulatory information**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

#### 3-methoxy-3-methyl-1-butanol is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### d-limonene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# Petroleum Distillates light\* is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### carbon dioxide is found on the following regulatory lists

FEI Equine Prohibited Substances List - Controlled Medication

FEI Equine Prohibited Substances List (EPSL)

US - Massachusetts - Right To Know Listed Chemicals

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# **Federal Regulations**

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

#### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	Yes
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No

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	,	
Aspiration Hazard	Y	es
Germ cell mutagenicity	N	lo
Simple Asphyxiant	N	lo
Hazards Not Otherwise Classified	N	lo

# US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

#### **State Regulations**

# US. California Proposition 65



WARNING: None . For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (3-methoxy-3-methyl-1-butanol; d-limonene; Petroleum Distillates light*; carbon dioxide)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

### **SECTION 16 Other information**

Revision Date	17/04/2023
Initial Date	17/04/2023

# Other information

# Ingredients with multiple cas numbers

Name	CAS No
3-methoxy-3-methyl-1-butanol	56539-66-3, 1895087-38-3, 77908-12-4

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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