SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

LPS® Food Grade Silicone

of the mixture

Registration number

Synonyms None. **Part Number** 01716 02-July-2015 Issue date

Version number

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses A food grade industrial lubricant for rubber, plastic and metal parts.

None known. Uses advised against 1.3. Details of the supplier of the safety data sheet

Geocel Limited Supplier

Company name Western Wood Way, Langage Science Park, Plympton,

Address

Plymouth, PL7 5BG United Kingdom

+001 703-527-3887

+44 (0)1752 202060 / +44 (0)1752 334384 **Telephone**

In Case of Emergency

Manufacturer

ITW Pro Brands Company name

4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.) **Address**

Website http://www.lpslabs.com e-mail lpssds@itwprobrands.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification F+;R12, Carc. Cat. 1;R45, Muta. Cat. 2;R46, Xi;R38, R67, N;R51/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Carcinogenicity Category 1A H350 - May cause cancer. Reproductive toxicity Category 2 H361 - Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single

exposure

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

Hazard summary

Physical hazards Extremely flammable.

Health hazards May cause cancer. May cause heritable genetic damage. Irritating to skin. Vapours may cause

drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse

health effects.

Material name: LPS® Food Grade Silicone - ITW Pro Brands (EU)

01716 Version #: 01 Issue date: 02-July-2015

Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards May cause central nervous system effects.

Main symptoms Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Decrease in motor functions. Behavioural changes. Prolonged exposure may cause chronic

effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, 3-Methylpentane, n-Hexane, Contains:

Petroleum Gases, Liquified, Sweetened

Hazard pictograms



Signal word Danger

Hazard statements

Extremely flammable aerosol. H222

Pressurized container: May burst if heated. H229

Causes skin irritation. H315

May cause drowsiness or dizziness. H336

May cause cancer. H350

Suspected of damaging fertility or the unborn child. H361 Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251

Pressurised container: Do not pierce or burn, even after use. P251

Do not breathe dust/fume/gas/mist/vapors/spray. P260

Wash thoroughly after handling. P264

Use only outdoors or in a well-ventilated area. P271

Avoid release to the environment. P273

Wear protective gloves/eye protection/face protection. P280

Response

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

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P304 + P340

IF exposed or concerned: Get medical advice/attention. P308 + P313 Call a POISON CENTER/doctor if you feel unwell. P312

Specific treatment (see this label). P321

If skin irritation occurs: Get medical advice/attention. P332 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

Collect spillage. P391

Storage

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

Store locked up. P405

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410 + P412

Disposal

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

Supplemental label information None 2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: LPS® Food Grade Silicone - ITW Pro Brands (EU) SDS FII

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
2-Methylpentane		30 - < 40	107-83-5 203-523-4	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SE	∃ 3;H336,	С
Petroleum Gases, Liqui Sweetened	ified,	20 - < 30	68476-86-8 270-705-8	-	649-203-00-1	
Classification:	DSD:	F+;R12, Carc. C	at. 1;R45, Muta. Ca	at. 2;R46		K,S
	CLP:	Muta. 1B;H340,	Carc. 1A;H350			K,S,U
2,3-Dimethylbutane		10 - < 20	79-29-8 201-193-6	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SE	E 3;H336,	С
3-Methylpentane		10 - < 20	96-14-0 202-481-4	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SE	∃ 3;H336,	С
2,2-Dimethylbutane		5 - < 10	75-83-2 200-906-8	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SE	∃ 3;H336,	С
n-Hexane		1 - < 3	110-54-3 203-777-6	-	601-037-00-0	#
Classification:	DSD:	F;R11, Repr. Ca	t. 3;R62, Xn;R65-4	8/20, Xi;R38, R67, N;R51/53		
	CLP:		25, Asp. Tox. 1;H30 RE 2;H373, Aquatio	4, Skin Irrit. 2;H315, STOT SE Chronic 2;H411	∃ 3;H336, Repr.	

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Immediate medical attention is required. Show this safety data sheet to the

doctor in attendance.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing,

give artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control centre

immediately.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention immediately.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed

Narcosis. Irritation of eyes and mucous membranes. Skin irritation. Decrease in motor functions. Behavioural changes. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Symptoms may be delayed. Keep victim under observation.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Pressurised container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for firefighters Special protective equipment for firefighters Special fire fighting

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Water runoff can cause environmental damage.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Absorb spillage with non-combustible, absorbent material. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

6.4. Reference to other sections

Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13. Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Ground and bond containers when transferring material. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Use only in well-ventilated areas. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, incinerate or crush. This material can accumulate static charge which may cause spark and become an ignition source. Keep out of the reach of children.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

2.2-Dimethylbutane (CAS	
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Denmark. Exposure Limit Values Components Type Value 72 mg/m3 20 ppm Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Reg	
Components Type Value n-Hexane (CAS 110-54-3) TLV 72 mg/m3 20 ppm Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Reg	
20 ppm Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Reg	
20 ppm Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Reg	
Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Reg	
	ulation No. 293 of 18 Septemb
2001)	
Components Type Value	
n-Hexane (CAS 110-54-3) TWA 72 mg/m3	
20 ppm	
Finland. Workplace Exposure Limits	
Components Type Value	
2,2-Dimethylbutane (CAS STEL 2300 mg/s	3
75-83-2)	
630 ppm	
TWA 1800 mg/s	
1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

Finland. Workplace Exposure Lim Components	iits Type	Value
2,3-Dimethylbutane (CAS 79-29-8)	STEL	2300 mg/m3
73 23 0)		630 ppm
	TWA	1800 mg/m3
		500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	2300 mg/m3
10. 00 0,		630 ppm
	TWA	1800 mg/m3
		500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	2300 mg/m3
		630 ppm
	TWA	1800 mg/m3
		500 ppm
n-Hexane (CAS 110-54-3)	STEL	2300 mg/m3
	3.22	630 ppm
	TWA	72 mg/m3
	IWA	20 ppm
France. Threshold Limit Values (\ Components	LEP) for Occupational Expos	ure to Chemicals in France, INRS ED 984 Value Form
n-Hexane (CAS 110-54-3)	VLE	1500 mg/m² Vanor
II-HEXANE (UAS TTU-34-3)	VLE VME	1500 mg/m3 Vapor.
	V IVI⊏	72 mg/m3
		20 ppm
in the Work Area (DFG)	· · · · · ·	Investigation of Health Hazards of Chemical Compour
Components	Туре	Value
2,2-Dimethylbutane (CAS 75-83-2)	TWA	1800 mg/m3
70 00 2)		500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	TWA	1800 mg/m3
. 6 = 6 6)		500 ppm
		• •
	TWA	1800 mg/m3
	TWA	·
107-83-5) 3-Methylpentane (CAS	TWA	1800 mg/m3 500 ppm 1800 mg/m3
107-83-5) 3-Methylpentane (CAS		500 ppm 1800 mg/m3
107-83-5) 3-Methylpentane (CAS 96-14-0)	TWA	500 ppm 1800 mg/m3 500 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0)		500 ppm 1800 mg/m3 500 ppm 180 mg/m3
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values	TWA TWA in the Ambient Air at the Wo	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values	TWA	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS	TWA TWA in the Ambient Air at the Wo	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm
2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2)	TWA TWA in the Ambient Air at the Wo Type	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2)	TWA TWA in the Ambient Air at the Wo Type AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS	TWA TWA in the Ambient Air at the Wo Type	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8)	TWA TWA in the Ambient Air at the Wo Type AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS	TWA TWA in the Ambient Air at the Wo Type AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3
3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5)	TWA TWA in the Ambient Air at the Wortype AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS	TWA TWA in the Ambient Air at the Wo Type AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3
3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0)	TWA TWA In the Ambient Air at the Worth Type AGW AGW AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS	TWA TWA in the Ambient Air at the Wortype AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3
3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0)	TWA TWA In the Ambient Air at the Worth Type AGW AGW AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm
3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Greece. OELs (Decree No. 90/1999)	TWA TWA TWA In the Ambient Air at the Worth Type AGW AGW AGW AGW AGW AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3
107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Greece. OELs (Decree No. 90/1998) Components	TWA TWA TWA In the Ambient Air at the Wo Type AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm rkplace Value 1800 mg/m3 500 ppm
3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Germany. TRGS 900, Limit Values Components 2,2-Dimethylbutane (CAS 75-83-2) 2,3-Dimethylbutane (CAS 79-29-8) 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) n-Hexane (CAS 110-54-3) Greece. OELs (Decree No. 90/1999)	TWA TWA TWA In the Ambient Air at the Worth Type AGW AGW AGW AGW AGW AGW AGW	500 ppm 1800 mg/m3 500 ppm 180 mg/m3 50 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm 1800 mg/m3 500 ppm

Components	Туре	Value	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
celand. OELs. Regulation 154/199		· ·	
Components	Type	Value	
n-Hexane (CAS 110-54-3)	TWA	90 mg/m3	
(25 ppm	
Ireland. Occupational Exposure Li	imits		
Components	Туре	Value	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
ltaly. Occupational Exposure Limi	its		
Components	Туре	Value	
2,2-Dimethylbutane (CAS	STEL	1000 ppm	
75-83-2)	T)4/4	500	
2.2 Dimothylbutona (CAC	TWA STEL	500 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	SIEL	1000 ppm	
,	TWA	500 ppm	
2-Methylpentane (CAS	STEL	1000 ppm	
107-83-5)	TWA	500 ppm	
3-Methylpentane (CAS	STEL	500 ppm 1000 ppm	
96-14-0)	JILL	τοσο μμπι	
	TWA	500 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Latvia. OELs. Occupational expos			
Components	Туре	Value	
n-Hexane (CAS 110-54-3)	STEL	300 mg/m3	
in noxune (enterno en e)		72 mg/m3	
THOMANO (ONE THOO TO)	TWA	<u> </u>	
		20 ppm	
Lithuania. OELs. Limit Values for		20 ppm	
Lithuania. OELs. Limit Values for Components	Chemical Substances, Genera Type	20 ppm al Requirements Value	
Lithuania. OELs. Limit Values for Components	· Chemical Substances, Genera	20 ppm al Requirements Value 72 mg/m3	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3)	Chemical Substances, Genera Type TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation	Chemical Substances, Genera Type TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components	Type TWA Type Timit values (Annotation)	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components	TWA Texposure limit values (Anno	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3)	TWA TWA TWA TYPE TWA TYPE TYPE TYPE TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose	TWA TWA TWA TYPE TWA TYPE TYPE TYPE TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposischedules I and V)	TWA TWA TWA TYPE TWA TYPE TYPE TYPE TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposing Schedules I and V) Components	Type TWA TWA Tall exposure limit values (Anno Type TWA TWA TWA TWA Type TWA Type Trype Trype Trype Trype Trype	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CARValue)	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposing Schedules I and V) Components	TWA TWA Type TWA Type TWA Type TWA Type TWA TWA TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3)	Type TWA TWA Tall exposure limit values (Anno Type TWA TWA TWA TWA Type TWA Type Trype Trype Trype Trype Trype	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CARValue)	 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding)	Type TWA TWA Tall exposure limit values (Anno Type TWA TWA TWA TWA Type TWA Type Trype Trype Trype Trype Trype	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3	. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposischedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components	Type TWA TWA TYPE TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposischedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components	Type TWA TWA Tall exposure limit values (Annotation Type TWA TWA TWA Type TWA Type TWA Type TWA Type TWA Type TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 74 mg/m3 20 ppm Value 144 mg/m3	P. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3)	Type TWA TWA TWA TWA TYPE TWA TWA TYPE TWA Type TWA Type TWA Type TWA Type TWA Type TWA	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3	o. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3)	Type TWA Type STEL TWA T Contaminants in the Workpla	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3) Norway. Administrative Norms for Components	Type TWA Tall exposure limit values (Annotation Type TWA TWA Type STEL TWA Type TOntaminants in the Workplat Type	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3	₽. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3)	Type TWA Type STEL TWA T Contaminants in the Workpla	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3 ce Value 72 mg/m3	o. 42
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposis Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3) Norway. Administrative Norms for Components n-Hexane (CAS 110-54-3)	Type TWA Type STEL TWA T Contaminants in the Workplat Type TLV	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3 20 ppm	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Expose Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3) Norway. Administrative Norms for Components n-Hexane (CAS 110-54-3) Poland. MACs. Minister of Labour	Type TWA Type STEL TWA T Contaminants in the Workplat Type TLV	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3 ce Value 72 mg/m3	
Lithuania. OELs. Limit Values for Components n-Hexane (CAS 110-54-3) Luxembourg. Binding Occupation Components n-Hexane (CAS 110-54-3) Malta. OELs. Occupational Exposis Schedules I and V) Components n-Hexane (CAS 110-54-3) Netherlands. OELs (binding) Components n-Hexane (CAS 110-54-3) Norway. Administrative Norms for Components n-Hexane (CAS 110-54-3)	Type TWA Type STEL TWA T Contaminants in the Workplat Type TLV	20 ppm al Requirements Value 72 mg/m3 20 ppm ex I), Memorial A Value 72 mg/m3 20 ppm Occupational Health and Safety Authority Act (CAF Value 72 mg/m3 20 ppm Value 72 mg/m3 20 ppm Value 144 mg/m3 72 mg/m3 72 mg/m3 20 ppm	

Portugal. OELs. Decree-Law n. 29 Components	0/2001 (Journal of the Republ Type	ic - 1 Series A, n.266) Value	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3 20 ppm	
Portugal. VLEs. Norm on occupat Components	ional exposure to chemical aç Type	• •	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Romania. OELs. Protection of wo Components	rkers from exposure to chemi Type	cal agents at the workplace Value	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3 20 ppm	
Slovakia. OELs. Regulation No. 3 Components	00/2007 concerning protection Type	of health in work with chemical agents Value	
n-Hexane (CAS 110-54-3)	STEL	140 mg/m3	
		40 ppm	
	TWA	72 mg/m3	
		20 ppm	
Slovenia. OELs. Regulations con (Official Gazette of the Republic of		against risks due to exposure to chemicals while we	orking
Components	Туре	Value	
2,2-Dimethylbutane (CAS	TWA	720 mg/m3	
75-83-2)		200 ppm	
2,3-Dimethylbutane (CAS	TWA	720 mg/m3	
79-29-8)		·	
0 M II I I I (0 M 0	T14/4	200 ppm	
2-Methylpentane (CAS 107-83-5)	TWA	720 mg/m3	
,		200 ppm	
3-Methylpentane (CAS 96-14-0)	TWA	720 mg/m3	
90-14-0)		200 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Spain. Occupational Exposure Li		W.L.	
Components	Туре	Value	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
O down Oo of	Limia Valora	20 ppm	
Sweden. Occupational Exposure Components	Type	Value	
2,2-Dimethylbutane (CAS	STEL	1100 mg/m3	
75-83-2)	SILL	1100 mg/ms	
		300 ppm	
	TWA	700 mg/m3	
2,3-Dimethylbutane (CAS 79-29-8)	STEL	200 ppm 1100 mg/m3	
- · /		300 ppm	
	TWA	700 mg/m3	
O Matterda autora (OAO	OTEL	200 ppm	
2-Methylpentane (CAS 107-83-5)	STEL	1100 mg/m3	
,		300 ppm	
	TWA	700 mg/m3	
3-Methylpentane (CAS 96-14-0)	STEL	200 ppm 1100 mg/m3	
		300 ppm	
	TWA	700 mg/m3	
	a	200 ppm	
n-Hexane (CAS 110-54-3)	STEL	180 mg/m3	
		50 ppm	

Sweden. Occupational Exposure Components	Туре	Value
	TWA	90 mg/m3
		25 ppm
Switzerland. SUVA Grenzwerte ar	n Arbeitsplatz	
Components	Туре	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	3600 mg/m3
		1000 ppm
	TWA	1800 mg/m3
		500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	STEL	3600 mg/m3
		1000 ppm
	TWA	1800 mg/m3
		500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	3600 mg/m3
		1000 ppm
	TWA	1800 mg/m3
		500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	3600 mg/m3
		1000 ppm
	TWA	1800 mg/m3
		500 ppm
n-Hexane (CAS 110-54-3)	STEL	1440 mg/m3
		400 ppm
	TWA	180 mg/m3
		50 ppm
UK. EH40 Workplace Exposure Li	mits (WELs)	
Components	Туре	Value
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
		, 2000/39/EC, 2006/15/EC, 2009/161/EU
Components	Туре	Value
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3

Biological limit values

France. Biological indicate	tors of exposure (IBE)	(National Institute	for Research ar	nd Security (INRS, ND 2065)
Components	Value	Determinant	Specimen	Sampling time
n-Hexane (CAS 110-54-3)	5 mg/g	2,5-Hexanedio ne	Creatinine in urine	*

20 ppm

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

Germany. TRGS 903, BAT Components	「List (Biological Li Value	imit Values) Determinant	Specimen	Sampling time	
n-Hexane (CAS 110-54-3)	5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon (nach Hydrolyse)	Urine	*	

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

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
n-Hexane (CAS 110-54-3)	3,5 mg/g	hexane-2,5-dio n	Creatinine in urine	*
	3,5 µmol/mmol	hexane-2,5-dio n	Creatinine in urine	*
* - For eampling details, pla	asse see the source of	locument		

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

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling time
n-Hexane (CAS 110-54-3)	3 mg/	g 2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Creatinine in urine	*
	5 mg/l	2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Urine	*

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4					
Components	Value	Determinant	Specimen	Sampling time	
n-Hexane (CAS 110-54-3)	0,2 mg/l	2,5-Hexanodio na, sin hidrólisis	Urine	*	

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

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)					
Components	Value	Determinant	Specimen	Sampling time	
n-Hexane (CAS 110-54-3)	5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon	Urine	*	

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

Recommended monitoring

Derived no-effect level (DNEL)

g

Follow standard monitoring procedures.

procedures

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required.

Eye/face protection Do not get in eyes. Chemical goggles are recommended. Eye wash fountain is recommended.

Skin protection

- Hand protection For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves

are recommended.

Other
 Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment. Wear suitable protective

clothing. Chemical resistant gloves.

air-supplied respirator.

Thermal hazards None known.

Hygiene measures Do not get in eyes, on skin, on clothing. When using, do not eat, drink or smoke. Wash hands after

handling and before eating. Keep away from food and drink. Handle in accordance with good

industrial hygiene and safety practices.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.
Physical state Gas.
Form Aerosol

Colour Clear.Colorless
Odour Mild. Ether-like.
Odour threshold Not established

Not applicable pН Melting point/freezing point Not established

-151,8 °C (-241,24 °F) estimated

Initial boiling point and boiling

range

< -17,0 °C (< 1,4 °F) Tag closed cup

Evaporation rate < 1 BuAc Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1 % (estimated)

61 °C (141,8 °F)

(%)

Flash point

Flammability limit - upper

6 % (estimated)

(%)

Vapour pressure 352 mm Hg @ 38 °C

Vapour density

Not available. Relative density

Solubility(ies)

Not soluble in water Solubility (water) Not available. Solubility (other)

Partition coefficient > 1

(n-octanol/water)

306 °C (582,8 °F) **Auto-ignition temperature Decomposition temperature** Not available. < 14 cSt @ 25°C Viscosity **Explosive properties** Not available. Not available. Oxidizing properties

9.2. Other information

Heat of combustion > 30 kJ/gPercent volatile 96 %

Specific gravity 0,64 - 0,66 @ 20°C

VOC (Weight %) 96,1 % per State and Federal Consumer Product Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity Strong oxidising agents. Fluorine. Chlorine. Nitrates.

10.2. Chemical stability Risk of explosion.

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Heat, flames and sparks. Avoid temperatures exceeding the flash point. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidising agents. Fluorine. Chlorine. Nitrates.

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

decomposition products

10.6. Hazardous

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

May be harmful if inhaled. Vapours have a narcotic effect and may cause headache, fatigue, Inhalation

dizziness and nausea.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational Ingestion

exposure.

Symptoms Irritant effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and

nausea. Behavioural changes. Decrease in motor functions. Narcosis.

11.1. Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

Components	Species	Test results
n-Hexane (CAS 110-54-3)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 4 Hours
		> 5 ml/kg, 4 Hours
Inhalation		
LC50	Mouse	48000 ppm, 4 Hours
	Rat	> 5000 ppm, 24 Hours
	····	• •
		> 31,86 mg/l
		73860 ppm, 4 Hours
Oral	_	
LD50	Rat	24 ml/kg
		24 mg/kg
	Wistar rat	49 mg/kg
Petroleum Gases, Liquified, Swee	tened (CAS 68476-86-8)	
Acute	,	
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	
	Rat	1355 mg/l
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity -	Narcotic effects.	
single exposure		
Specific target organ toxicity - repeated exposure	Causes damage to organs (Central Nervous System, Liver, Kidneys, Blood, Skin) through prolonged or repeated exposure.	
Aspiration hazard	Not likely, due to the form of the product.	
Mixture versus substance	No information available.	
information	a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.	
Other information	Symptoms may be delayed.	
0F0T10N 40 T		
SECTION 12: Ecological in	ntormation	
12.1. Toxicity	Expected to be toxic to aquatic organ environment.	nisms. May cause long-term adverse effects in the
Components	Species	Test results
n-Hexane (CAS 110-54-3)		
Aquatic		
Fish	LC50 Fathead minnow (Pin	nephales promelas) 2,101 - 2,981 mg/l, 96 hours
12.2. Persistence and degradability	Not inherently biodegradable.	
12.3. Bioaccumulative potential	Not available.	
Partition coefficient n-octanol/water (log Kow)		
LPS® Food Grade Silicone	> 1	
2,2-Dimethylbutane 2,3-Dimethylbutane	3,82 3,42	
2-Methylpentane	3,74	
3-Methylpentane	3,6	
n-Havana	3 0	

3,9

n-Hexane

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT

12.5. Results of PE and vPvR Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

emptied. Do not re-use empty containers.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Contents under pressure. Do not puncture, incinerate or crush. Collect and reclaim or dispose in

sealed containers at licensed waste disposal site. Dispose in accordance with all applicable

regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1

Hazard No. (ADR)
Tunnel restriction code
14.4. Packing group
Not available.
Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions Not available.

for user

RID

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions Not available.

for user

ADN

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions Not available.

for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

Not available. 14.6. Special precautions

for user

Other information

Passenger and cargo Forbidden.

aircraft

Forbidden. Cargo aircraft only

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

14.4. Packing group Not applicable.

14.5. Environmental hazards

Marine pollutant No.

EmS Not available. 14.6. Special precautions Not available.

for user

14.7. Transport in bulk Not available.

according to Annex II of MARPOL 73/78 and the IBC

Code

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

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Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

n-Hexane (CAS 110-54-3)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

2,2-Dimethylbutane (CAS 75-83-2)

2,3-Dimethylbutane (CAS 79-29-8)

2-Methylpentane (CAS 107-83-5)

3-Methylpentane (CAS 96-14-0)

n-Hexane (CAS 110-54-3)

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

2,2-Dimethylbutane (CAS 75-83-2)

2,3-Dimethylbutane (CAS 79-29-8)

2-Methylpentane (CAS 107-83-5)

3-Methylpentane (CAS 96-14-0)

n-Hexane (CAS 110-54-3)

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Directive 94/33/EC on the protection of young people at work, as amended

n-Hexane (CAS 110-54-3)

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Not available.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture Full text of any statements or

R-phrases and H-statements under Sections 2 to 15

R11 Highly flammable.

R12 Extremely flammable. R38 Irritating to skin. R45 May cause cancer.

R46 May cause heritable genetic damage.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

SDS FII

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R62 Possible risk of impaired fertility.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

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H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Training information

None. Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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