

SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	LPS® Micro-X
Registration number	-
Synonyms	None.
Part Number	04555, M04555
Issue date	28-July-2014
Version number	01
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	A fast drying industrial cleaning solvent designed to remove soil and other contaminants.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Supplier	Geocel Limited
Company name	Western Wood Way, Langage Science Park, Plympton,
Address	
	Plymouth, PL7 5BG United Kingdom
Telephone	+44 (0)1752 202060 / +44 (0)1752 334384
In Case of Emergency	+001 703-527-3887
Manufacturer	
Company name	LPS Laboratories, a division of Illinois Tool Works, Inc.
Address	4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website	http://www.lpslabs.com
e-mail	sds@lpslabs.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;R11, Xn;R65, Xi;R36-38, 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		
Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
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.
Specific target organ toxicity - repeated exposure (inhalation)	Category 2 (nervous system)	H373 - May cause damage to organs (nervous system) through prolonged or repeated exposure by inhalation.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

Hazard summary	
Physical hazards	Highly flammable.
Health hazards	May impair fertility. May cause harm to the unborn child. Irritating to eyes. Irritating to skin. Also harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Highly flammable. In use, may form flammable/explosive vapour-air mixture. May cause central nervous system effects. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes and skin. Harmful if swallowed. May impair fertility. May cause harm to the unborn child. Prolonged exposure may cause chronic effects.
Main symptoms	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Decrease in motor functions. Behavioural changes. Irritating to eyes, respiratory system and skin. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
2.2. Label elements	
Label according to Regulation (E	-C) No. 1272/2008 as amended
Contains:	2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, 3-Methylpentane, Isopropanol, N-HEXANE
Hazard pictograms	
Signal word	Danger
Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
	May cause drowsiness or dizziness.
H336	
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure by
H411	inhalation. Toxic to aquatic life with long lasting effects.
	Toxic to aquatio me with long lasting chects.
Precautionary statements	
Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist or vapour.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	
-	In case of fire: Use appropriate media for extinction.
P370 + P378	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P301 + P310	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with
P303 + P361 + P353	water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P321	Specific treatment (see this label).
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P352	Wash with plenty of soap and water.

Storage P235 P403 + P233 P405		Keep cool. Store in a well-ve Store locked up.	ntilated place	e. Keep c	ontainer tightly clo	sed.		
Disposal								
P501		Dispose of conter	nts/container	in accord	dance with local/re	gional/nat	tional/internationa	al regulatio
pplemental label inform	ation	11,62 % of the mi environment.	xture consist	s of com	ponent(s) of unkno	wn long-t	term hazards to t	ne aquatic
Other hazards		None known.						
CTION 3: Composi	tion/iı	nformation on	ingredien	ts				
Mixtures			-					
neral information								
Chemical name		%	CAS-No. /	EC No.	REACH Registra	tion No.	INDEX No.	Notes
2-Methylpentane		40 - 50	107-8 203-52		-		601-007-00-7	
Classification:	DSD	: F;R11, Xn;R65,			53			С
	CLP	Flam. Liq. 2;H2 Aquatic Chronic		. 1;H304	, Skin Irrit. 2;H315,	STOT SI	E 3;H336,	С
2,3-Dimethylbutane		10 - 20	79-29 201-19		-		601-007-00-7	
Classification:	DSD	: F;R11, Xn;R65,	Xi;R38, R67	', N;R51/	53			С
	CLP	Flam. Liq. 2;H2 Aquatic Chronic		. 1;H304	, Skin Irrit. 2;H315,	STOT SI	E 3;H336,	С
3-Methylpentane		10 - 20	96-14 202-48		-		601-007-00-7	
Classification:	DSD	F;R11, Xn;R65,	Xi;R38, R67	′, N;R51/	53			С
	CLP	Flam. Liq. 2;H2 Aquatic Chronic		. 1;H304	, Skin Irrit. 2;H315,	STOT SI	E 3;H336,	С
Isopropanol		5 - 15	67-63 200-66		-		603-117-00-0	
Classification:	DSD	F;R11, Xi;R36,	R67					
	CLP	Flam. Liq. 2;H2	25, Eye Irrit.	2;H319,	STOT SE 3;H336			
2,2-Dimethylbutane		1 - 10	75-83 200-90		-		601-007-00-7	
Classification:	DSD	F;R11, Xn;R65,	Xi;R38, R67	, N;R51/	53			С
	CLP	Flam. Liq. 2;H2 Aquatic Chronic		. 1;H304	, Skin Irrit. 2;H315,	STOT SI	E 3;H336,	С
N-HEXANE		< 3	110-5 203-77		-		601-037-00-0	#
Classification:	DSD	: F;R11, Repr. C			20, Xi;R38, R67, N	I;R51/53		
	CLP	Flam. Liq. 2;H2 Repr. 2;H361f,			Skin Irrit. 2;H315,		E 3;H336,	

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.
4.1. Description of first aid meas	sures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. 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 if symptoms develop or persist.
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. Call a physician or Poison Control Centre immediately.
Ingestion	Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconsious person. 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	Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Behavioural changes. Prolonged exposure may cause chronic effects.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
SECTION 5: Firefighting m	neasures

General fire hazards	Highly flammable liquid and vapour.
5.1. Extinguishing media	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	By heating and fire, harmful vapours/gases may be formed. Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch or walk through spilled material. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

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.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use foam to blanket spilled material. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.
6.4. Reference to other sections	Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.
SECTION 7: Handling and	storage
7.1. Precautions for safe handling	Vapours may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke.
	Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.
	Avoid breathing mist or vapour. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.
	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
7.2. Conditions for safe storage, including any	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques.
incompatibilities	Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001

Components	Туре	Value	
2,2-Dimethylbutane (CAS 75-83-2)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
2-Methylpentane (CAS 107-83-5)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
3-Methylpentane (CAS 96-14-0)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
Isopropanol (CAS 67-63-0)	MAK	500 mg/m3	
		200 ppm	
	STEL	2000 mg/m3	
		800 ppm	
N-HEXANE (CAS 110-54-3)	MAK	72 mg/m3	
· · · ·		20 ppm	
	STEL	288 mg/m3	

Components	Туре	Value
		80 ppm
Belgium. Exposure Limit Values.		
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Bulgaria. OELs. Regulation No 13 o Components	n protection of workers agai Type	nst risks of exposure to chemical agents at work Value
sopropanol (CAS 67-63-0)	STEL	1225 mg/m3
	TWA	980 mg/m3
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Croatia. Dangerous Substance Exp Components	osure Limit Values in the Wo Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/0 Value
-		
sopropanol (CAS 67-63-0)	MAC	999 mg/m3
	STEL	400 ppm
	STEL	1250 mg/m3
	MAC	500 ppm
V-HEXANE (CAS 110-54-3)	MAC	72 mg/m3 20 ppm
Cyprus. OELs. Control of factory at Components	mosphere and dangerous su Type	bstances in factories regulation, PI 311/73, as amended Value
sopropanol (CAS 67-63-0)	TWA	980 mg/m3
		400 ppm
Czech Republic. OELs. Governmen	t Dooroo 261	
Components	Type	Value
-		1000 mg/m2
sopropanol (CAS 67-63-0)	Ceiling TWA	1000 mg/m3
		500 mg/m3
N-HEXANE (CAS 110-54-3)	Ceiling TWA	200 mg/m3
	TWA	70 mg/m3
Denmark. Exposure Limit Values Components	Туре	Value
-		
sopropanol (CAS 67-63-0)	TLV	490 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	TLV	72 mg/m3
		20 ppm
	sure Limits of Hazardous Sub	ostances. (Annex of Regulation No. 293 of 18 September
2001)	sure Limits of Hazardous Sub Type	ostances. (Annex of Regulation No. 293 of 18 September Value
2001) Components	Туре	Value
2001) Components		Value 600 mg/m3
2001) Components	Type STEL	Value 600 mg/m3 250 ppm
2001) Components	Туре	Value 600 mg/m3 250 ppm 350 mg/m3
2001) Components sopropanol (CAS 67-63-0)	Type STEL TWA	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm
2001) Components	Type STEL	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3
2001) Components sopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3)	Type STEL TWA TWA	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm
2001) Components sopropanol (CAS 67-63-0)	Type STEL TWA TWA	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3
2001) Components sopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) Finland. Workplace Exposure Limit Components	Type STEL TWA TWA s Type	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3 20 ppm Value
2001) Components sopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) Finland. Workplace Exposure Limit Components 2,2-Dimethylbutane (CAS	Type STEL TWA TWA	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3 20 ppm
2001) Components sopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) Finland. Workplace Exposure Limit Components 2,2-Dimethylbutane (CAS	Type STEL TWA TWA s Type	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3 20 ppm Value
2001) Components sopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) Finland. Workplace Exposure Limit	Type STEL TWA TWA s Type	Value 600 mg/m3 250 ppm 350 mg/m3 150 ppm 72 mg/m3 20 ppm Value 2300 mg/m3

Finland. Workplace Exposure Limits

Components	Туре	Value
2,3-Dimethylbutane (CAS 79-29-8)	STEL	2300 mg/m3
		630 ppm
	TWA	1800 mg/m3
		500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	2300 mg/m3
		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
Isopropanol (CAS 67-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	STEL	2300 mg/m3
		630 ppm
	TWA	72 mg/m3
		20 ppm
France Threshold I imit Values (V	EP) for Occupational Expos	sure to Chemicals in France, INRS ED 984

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Value Form

components	туре	value	1 onn
Isopropanol (CAS 67-63-0)	VLE	980 mg/m3	
		400 ppm	
N-HEXANE (CAS 110-54-3)	VLE	1500 mg/m3	Vapor.
	VME	72 mg/m3	
		20 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
N-HEXANE (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Туре	Value	
2,2-Dimethylbutane (CAS 75-83-2)	AGW	1800 mg/m3	
		500 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	AGW	1800 mg/m3	
,		500 ppm	
2-Methylpentane (CAS 107-83-5)	AGW	1800 mg/m3	
,		500 ppm	
3-Methylpentane (CAS 96-14-0)	AGW	1800 mg/m3	
		500 ppm	
Isopropanol (CAS 67-63-0)	AGW	500 mg/m3	
		200 ppm	
N-HEXANE (CAS 110-54-3)	AGW	180 mg/m3	
		50 ppm	
Greece. OELs (Decree No. 90/1999), as amended)		
Components	Туре	Value	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
· · · ·		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

Greece. OELs (Decree No. 90/1999, as an Components	Type	Value
N-HEXANE (CAS 110-54-3)	TWA	180 mg/m3
		50 ppm
lungary. OELs. Joint Decree on Chemica		
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	2000 mg/m3
	TWA	500 mg/m3
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
celand. OELs. Regulation 154/1999 on o Components	ccupational exposure lin Type	nits Value
sopropanol (CAS 67-63-0)	TWA	490 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	TWA	90 mg/m3
		25 ppm
reland. Occupational Exposure Limits	_	
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
taly. Occupational Exposure Limits	_	
Components	Туре	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1000 ppm
	TWA	500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	STEL	1000 ppm
	TWA	500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm
	TWA	500 ppm
sopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
_atvia. OELs. Occupational exposure lim Components	it values of chemical sul Type	bstances in work environment Value
sopropanol (CAS 67-63-0)	STEL	600 mg/m3
	TWA	350 mg/m3
N-HEXANE (CAS 110-54-3)	STEL	300 mg/m3
	TWA	72 mg/m3
		20 ppm
ithuania. OELs. Limit Values for Chemi	cal Substances, General	-
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Luxembourg. Binding Occupational expo Components	osure limit values (Anne) Type	(I), Memorial A Value
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm

Components	Туре	Value
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3 20 ppm
Netherlands. OELs (binding)		
Components	Туре	Value
N-HEXANE (CAS 110-54-3)	STEL	144 mg/m3
	TWA	72 mg/m3
Norway. Administrative Norms for Components	-	ace Value
-	Туре	
sopropanol (CAS 67-63-0)	TLV	245 mg/m3 100 ppm
N-HEXANE (CAS 110-54-3)	TLV	72 mg/m3
		20 ppm
Poland. MACs. Minister of Labour a	and Social Policy Regarding	Maximum Allowable Concentrations and Intensities in
Working Environment	_	
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
Portugal. OELs. Decree-Law n. 290 Components	· ·	lic - 1 Series A, n.266) Value
-	Туре	
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
Portugal. VLEs. Norm on occupation	nal ovnosuro to obomical a	20 ppm
Components	Type	Value
sopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
N-HEXANE (CAS 110-54-3)	TWA	50 ppm
Romania. OELs. Protection of work	ters from exposure to chemi	
Components	Туре	Value
sopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
		81 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Slovakia. OELs. Regulation No. 300 Components	0/2007 concerning protection Type	n of health in work with chemical agents Value
-		
sopropanol (CAS 67-63-0)	STEL	1000 mg/m3
	TWA	400 ppm 500 mg/m3
	IWA	200 ppm
N-HEXANE (CAS 110-54-3)	STEL	140 mg/m3
	STEE	40 ppm
	TWA	72 mg/m3
		20 ppm
Slovenia. OELs. Regulations conce Official Gazette of the Republic of		against risks due to exposure to chemicals while workin
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)		200 ppm
2-Methylpentane (CAS	TWA	720 mg/m3

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

(Official Gazette of the Republic of	-	
Components	Туре	Value
		200 ppm
3-Methylpentane (CAS	TWA	720 mg/m3
96-14-0)		Ŭ
		200 ppm
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
()		20 ppm
	- 14 -	
Spain. Occupational Exposure Lin		Value
Components	Туре	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
N-HEXANE (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
		20 ppm
Sweden. Occupational Exposure L		Walter
Components	Туре	Value
2,2-Dimethylbutane (CAS	STEL	1100 mg/m3
75-83-2)		3
		300 ppm
	TWA	700 mg/m3
		200 ppm
2,3-Dimethylbutane (CAS	STEL	1100 mg/m3
79-29-8)	0.11	
,		300 ppm
	TWA	700 mg/m3
		200 ppm
2-Methylpentane (CAS	STEL	1100 mg/m3
107-83-5)	0122	
,		300 ppm
	TWA	700 mg/m3
		200 ppm
3-Methylpentane (CAS	STEL	1100 mg/m3
96-14-0)	0122	
		300 ppm
	TWA	700 mg/m3
		200 ppm
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
Isopropanol (CAS 07-03-0)	SILL	-
	T) A / A	250 ppm
	TWA	350 mg/m3
	075	150 ppm
N-HEXANE (CAS 110-54-3)	STEL	180 mg/m3
		50 ppm
	TWA	90 mg/m3
		25 ppm
Switzerland. SUVA Grenzwerte am	n Arbeitsplatz	
Components	Туре	Value
2,2-Dimethylbutane (CAS	STEL	3600 mg/m3
75-83-2)		1000 ppm
	TWA	1000 ppm
	IVVA	1800 mg/m3
	075	500 ppm
2,3-Dimethylbutane (CAS	STEL	3600 mg/m3
79-29-8)		1000
	T14/ 4	1000 ppm
	TWA	1800 mg/m3
		500 ppm
2-Methylpentane (CAS	STEL	3600 mg/m3
107-83-5)		1000
		1000 ppm
deleter and DOG Miner V I DO Laborate		

		Туре		v	alue
		TWA		18	800 mg/m3
					00 ppm
3-Methylpentane (CAS 96-14-0)		STEL			600 mg/m3
				10	000 ppm
		TWA		1	800 mg/m3
				5	00 ppm
Isopropanol (CAS 67-63-0)		STEL		10	000 mg/m3
					00 ppm
		TWA		5	00 mg/m3
					00 ppm
N-HEXANE (CAS 110-54-3)		STEL			440 mg/m3
					00 ppm
		TWA			80 mg/m3
				5	0 ppm
UK. EH40 Workplace Expos	sure Limits (WE	ELs)			
Components		Туре		V	alue
Isopropanol (CAS 67-63-0)		STEL		1:	250 mg/m3
					00 ppm
		TWA			99 mg/m3
					00 ppm
N-HEXANE (CAS 110-54-3)		TWA			2 mg/m3
				2	0 ppm
EU. Indicative Exposure Li	mit Values in D	irective	es 91/322/EEC, 20	00/39/EC, 200	6/15/EC, 2009/161/EU
Components		Туре		V	alue
N-HEXANE (CAS 110-54-3)		TWA		7	0,
				1.	2 mg/m3
					2 mg/m3 0 ppm
•				2	0 ppm
France. Biological indicato	ors of exposure Value	(IBE) (National Institute Determinant	2	-
France. Biological indicato Components	Value	(IBE) (I		20 for Research	0 ppm and Security (INRS, ND 2065) Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3)	Value 5 mg/g		Determinant 2,5-Hexanedio ne	for Research Specimen Creatinine ir	0 ppm and Security (INRS, ND 2065) Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, pleater	Value 5 mg/g ase see the source	ce docu	Determinant 2,5-Hexanedio ne ment.	for Research Specimen Creatinine ir	0 ppm and Security (INRS, ND 2065) Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I	Value 5 mg/g ase see the source	ce docu	Determinant 2,5-Hexanedio ne ment.	for Research Specimen Creatinine ir	0 ppm and Security (INRS, ND 2065) Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components	Value 5 mg/g ase see the sourc List (Biological Value	ce docu	Determinant 2,5-Hexanedio ne ment. Values) Determinant Aceton	for Research Specimen Creatinine ir urine Specimen Urine	and Security (INRS, ND 2065) Sampling time T * Sampling time *
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0)	Value 5 mg/g ase see the sourc List (Biological Value 25 mg/l 25 mg/l	ce docu	Determinant 2,5-Hexanedio ne ment. Values) Determinant Aceton Aceton	for Research Specimen Creatinine ir urine Specimen Urine Blood	and Security (INRS, ND 2065) Sampling time Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0)	Value 5 mg/g ase see the sourc List (Biological Value 25 mg/l 25 mg/l	ce docu	Determinant 2,5-Hexanedio ne ment. Values) Determinant Aceton Aceton 2,5-Hexandion	for Research Specimen Creatinine ir urine Specimen Urine	and Security (INRS, ND 2065) Sampling time T * Sampling time *
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0)	Value 5 mg/g ase see the sourc List (Biological Value 25 mg/l 25 mg/l	ce docu	Determinant 2,5-Hexanedio ne ment. Values) Determinant Aceton 2,5-Hexandion plus 4,5-Dihydroxy-	for Research Specimen Creatinine ir urine Specimen Urine Blood	and Security (INRS, ND 2065) Sampling time Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0)	Value 5 mg/g ase see the source List (Biological Value 25 mg/l 25 mg/l 5 mg/l	ce docu Limit V	Determinant 2,5-Hexanedio ne ment. /alues) Determinant Aceton Aceton 2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon	for Research Specimen Creatinine ir urine Specimen Urine Blood	and Security (INRS, ND 2065) Sampling time Sampling time
France. Biological indicato Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) * - For sampling details, plea HEXANE (CAS 110-54-3) * - For sampling details, plea * - For sampling details, plea Hungary. Chemical Safety a	Value 5 mg/g ase see the source List (Biological Value 25 mg/l 25 mg/l 5 mg/l ase see the source at Workplace O	ce docu Limit V	Determinant 2,5-Hexanedio ne ment. (alues) Determinant Aceton 2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon ment.	for Research Specimen Creatinine ir urine Specimen Urine Blood Urine	and Security (INRS, ND 2065) Sampling time Sampling time
Components N-HEXANE (CAS 110-54-3) * - For sampling details, plea Germany. TRGS 903, BAT I Components Isopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3) * - For sampling details, plea Hungary. Chemical Safety a biological exposure (effect	Value 5 mg/g ase see the source List (Biological Value 25 mg/l 25 mg/l 5 mg/l ase see the source at Workplace O	ce docu Limit V	Determinant 2,5-Hexanedio ne ment. /alues) Determinant Aceton 2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon ment.	for Research Specimen Creatinine ir urine Specimen Urine Blood Urine	and Security (INRS, ND 2065) Sampling time Sampling time

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 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	0-54-3)3 mg/g	2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Creatinine in urine	*	

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

agents, Annex 2 Components	Value	Determinant	Specimen	Sampling time
	5 mg/l	2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Urine	*
* - For sampling details, ple	ase see the source do	ocument.		
Spain. Biological Limit Va Components	ilues (VLBs), Occupa Value	ational Exposure Lir Determinant	nits for Chemic Specimen	al Agents, Table 4 Sampling time
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
N-HEXANE (CAS 110-54-3)0,4 mg/l	2,5-Hexanodio na, sin hidrólisis	Urine	*
* - For sampling details, ple	ase see the source do	ocument.		
Switzerland. BAT-Werte (Components	Biological Limit Valu Value	es in the Workplace Determinant	as per SUVA) Specimen	Sampling time
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
N-HEXANE (CAS 110-54-3)5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon	Urine	*
* - For sampling details, ple	ase see the source do	ocument.		
commended monitoring cedures	Follow standard n	nonitoring procedures	3.	
ived no-effect level (DNEL) Not available.			
dicted no effect centrations (PNECs)	Not available.			
Exposure controls				
propriate engineering trols	Explosion-proof g	eneral and local exha	aust ventilation.	Provide eyewash station.
vidual protection measure	es, such as personal	protective equipme	nt	
General information				nal protection equipment should be chos the supplier of the personal protective
Eye/face protection	Wear safety glass	ses with side shields	(or goggles). Ey	e wash fountain is recommended.
Skin protection				
- Hand protection	For prolonged or are recommended		t use suitable pr	otective gloves. Chemical resistant glove
- Other	Avoid contact with gloves.	n the skin. Wear appr	opriate chemica	I resistant clothing. Chemical resistant
Respiratory protection				required. Use a NIOSH/MSHA approved levels exceeding the exposure limits.
Thermal hazards	None known.			
iene measures	hygiene measure smoking. Routine	s, such as washing a ely wash work clothing	fter handling the g and protective	drink. Always observe good personal material and before eating, drinking, an equipment to remove contaminants.
rironmental exposure trols		l prevent releases an informed of all major		nal regulations on emissions. Environme

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Clear water-white
Odour	Solvent.
Odour threshold	Not available.
рН	Not available.

Melting point/freezing point	Not available.
Initial boiling point and boiling	60,5 °C (140,9 °F)
range	
Flash point	< -17,0 °C (< 1,4 °F) Tag closed cup
Evaporation rate	< 1 (Ethyl Ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0,6 %
Flammability limit - upper (%)	7 %
Vapour pressure	352,53 mm Hg @ 38ºC
Vapour density	~3 (air = 1)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	< 10 % w/w
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	>1
Auto-ignition temperature	306 °C (582,8 °F)
Decomposition temperature	Not available.
Viscosity	< 3 cSt @ 25°C
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
Heat of combustion	> 30 kJ/g
Percent volatile	100 %
Specific gravity	0,64 - 0,67 @ 20ºC
VOC (Weight %)	100 % per US State and Federal Consumer Product Regulations; 669 g/L per SCAQMD Rule 102
SECTION 10: Stability and	I reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates).
10.2. Chemical stability	Instability caused by elevated temperatures. Risk of ignition.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
10.5. Incompatible materials	Strong oxidising agents. Isocyanates Acids. Chlorine.
10.6. Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.		
Information on likely routes of exposure			
Ingestion	May be fatal if swallowed and enters airways.		
Inhalation	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.		
Skin contact	Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.		
Eye contact	Causes serious eye irritation.		
Symptoms	Skin irritation. Defatting of the skin. Irritating to eyes and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure may be headache, dizziness, nausea and vomiting.		
11.1. Information on toxicological effects			
Acute toxicity	Narcotic effects. May be fatal if swallowed and enters airways.		

Components	Species	Test results	
Isopropanol (CAS 67-63-0)			
Acute			
Dermal			
LD50	Rabbit	12800 mg/kg	
		16,4 ml/kg	
Inhalation			
LC50	Rat	> 10000 ppm	
Oral			
LD50	Dog	4797 mg/kg	
	Mouse	3600 mg/kg	
	Rabbit	5,03 g/kg	
	Rat	4,7 g/kg	
Other			
LD50	Mouse	1509 mg/kg	
	Rat	1099 mg/kg	
N-HEXANE (CAS 110-54-3)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
		> 5 ml/kg	
Inhalation			
LC50	Mouse	48000 mg/l, 4 Hours	
2000	Rat	> 5000 ppm	
	nat		
		> 31,86 mg/l	
<i>Oral</i> LD50	Rat	24 ml/kg	
ED30	Παι	-	
		24 mg/kg	
	Wistar rat	49 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye 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	a carcinogen by IARC, ACGIH, NTP, or OSHA.	
ACGIH Carcinogens			
Isopropanol (CAS 67-63-	0) Not cl	assifiable as a human carcinogen. A4	
Reproductive toxicity	Suspected of damaging fertility or the	unborn child.	
Specific target organ toxicity - single exposure	Narcotic effects.		
Specific target organ toxicity - repeated exposure	Causes damage to organs (nervous system) through prolonged or repeated exposure by inhalation.		
Aspiration hazard	May be fatal if swallowed and enters a	airways.	
Mixture versus substance information	Not available.		
Other information	None known.		
SECTION 12: Ecological in	nformation		
12.1 Toxicity	Toxic to aquatic life with long lasting e	offecte	

Toxic to aquatic life with long lasting effects.

Components		Species	Test results
Isopropanol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
N-HEXANE (CAS 110-54-3)			
Aquatic Fish	LC50	Fathead minnow (Pimephales prom	nelas) 2,101 - 2,981 mg/l, 96 hours
12.2. Persistence and degradability	Not inherently biodegradable.		
12.3. Bioaccumulative potential	No data available for this product.		
Partition coefficient n-octanol/water (log Kow) LPS® Micro-X 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane Isopropanol N-HEXANE		> 1 3,82 3,42 3,74 3,6 0,05 3,9	
Bioconcentration factor (BCF)	Not availa		
12.4. Mobility in soil	No data a	vailable.	
12.5. Results of PBT and vPvB assessment	Not availa	ble.	
12.6. Other adverse effects	None kno	wn.	
SECTION 13: Disposal co	nsideratio	ons	
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.		
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
SECTION 14: Transport in	nformation	ı	
General ADR	IMDG Reg	gulated Marine Pollutant.	
14.1. UN number 14.2. UN proper shipping name	UN1993 FLAMMABLE LIQUID, N.O.S. (Hexanes and Isopropanol)		
14.3. Transport hazard clas	s(es)		
Class	3		
Subsidiary risk	- 3		
Label(s)	33		

Read safety instructions, SDS and emergency procedures before handling.

FLAMMABLE LIQUID, N.O.S. (Hexanes and Isopropanol)

33

Ш

UN1993

Hazard No. (ADR)

14.6. Special precautions

14.2. UN proper shipping

14.4. Packing group

14.1. UN number

for user

name

RID

Tunnel restriction code D/E

14.5. Environmental hazards No

14.3. Transport hazard class	s(es)
Class	3
Subsidiary risk	
Label(s)	3
14.4. Packing group	II
14.5. Environmental hazard	s No
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ADN	
14.1. UN number	UN1993
14.2. UN proper shipping	FLAMMABLE LIQUID, N.O.S. (Hexanes and Isopropanol)
name	
14.3. Transport hazard class	s(es)
Class	3
Subsidiary risk	•
Label(s)	3
14.4. Packing group	
14.5. Environmental hazards	-
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ΙΑΤΑ	
14.1. UN number	UN1993 Elemmoble liquid in a s. (Hevenes and leaprenenel)
14.2. UN proper shipping name	Flammable liquid, n.o.s. (Hexanes and Isopropanol)
14.3. Transport hazard class	
Class	3
Subsidiary risk	-
14.4. Packing group	
14.5. Environmental hazards	
ERG Code	3H
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
	bed by air. Other pack sizes may be restricted to Cargo Aircraft Only. Check quantity limits before
placing on passenger aircraft. IMDG	
14.1. UN number	UN1993
14.1. UN proper shipping	FLAMMABLE LIQUID, N.O.S. (Hexanes and Isopropanol), MARINE POLLUTANT
name	TERMINABLE EIGOID, N.O.S. (Hexaries and isopropariol), MARINE TOELOTANT
14.3. Transport hazard class	s(es)
Class	3
Subsidiary risk	
14.4. Packing group	ll
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-E
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
14.7. Transport in bulk	This substance/mixture is not intended to be transported in bulk.
according to Annex II of	
MARPOL 73/78 and the IBC Code	
Code	

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

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 Not listed.

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

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

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 Not listed.

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

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 Not listed.

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

Not listed.

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

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work 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) Isopropanol (CAS 67-63-0) N-HEXANE (CAS 110-54-3)

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

N-HEXANE (CAS 110-54-3)

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 abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	 R11 Highly flammable. R36 Irritating to eyes. R38 Irritating to skin. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R60 May impair fertility. R61 May cause harm to the unborn child. 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. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 f Suspected of damaging fertility.
	H373 May cause damage to organs through prolonged or repeated exposure.
Devicing information	H411 Toxic to aquatic life with long lasting effects.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Follow training instructions when handling this material.
Disclaimer	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.