SAFETY DATA SHEET



Version #: 1,0

Issue date: 17-November-2022 Revision date: 17-November-2022

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

1.1. Product identifier

Trade name or designation

on

of the mixture

Registration number

Synonyms None.

Product code UDS000177AE

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

AMBERKLENE LO30

Identified uses Cleaners - Heavy duty

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries UK Ltd.

Address Wylds Road

Castlefield Industrial Estate TA6 4DD Bridgwater Somerset

United Kingdom

 Telephone
 +44 1278 727200

 Fax
 +44 1278 425644

 E-mail
 hse.uk@crcind.com

 Website
 www.crcind.com

Company name CRC Industries Europe by

Address Touwslagerstraat 1

9240 Zele Belgium

 Telephone
 +32(0)52/45.60.11

 Fax
 +32(0)52/45.00.34

 E-mail
 hse@crcind.com

 Website
 www.crcind.com

1.4. Emergency telephone

number

Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

Austria National Poisons

Information Centre

+431 406 4343 (Available 24 hours a day.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day.)

Bulgaria National

Toxicological Information

Centre

+359 2 9154233 (Available 24 hours a day.)

Czech Republic National

Poisons Information

Centre

Control Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided.)

Denmark National Poisons

+45 82 12 12 12 (Available 24 hours a day.)

Estonia National Poisons Information Centre

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed

on Centre on Sundays and on national holidays))

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Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day.)

Hungary National

Emergency Phone Number

36 80 20 11 99 (Available 24 hours a day.)

Lithuania Neatidėliotina informacija apsinuodijus +370 5 236 20 52 or +37068753378 (Hours of operation not provided.)

Malta Accident and **Emergency Department** 2545 4030 (Hours of operation not provided.)

Netherlands National Poisons Information Center (NVIC)

030-274 88 88 (Only for the purpose of informing medical personnel in cases of

acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day.)

Portugal Poison Centre

800 250 250 (Available 24 hours a day.)

Romania Număr de telefon care poate fi apelat în caz

021 5992300, int. 291 Spitalul Clinic de Urgență București:

spital@urgentafloreasca.ro

de urgență:

0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Judetean de Urgentă

Târgu Mureș: secretariat@spitjudms.ro

Slovakia National

Toxicological Information

Centre

Romania

+421 2 5477 4166 (Available 24 hours a day.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day.)

Switzerland Tox Info

145 (Available 24 hours a day.)

Suisse

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 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

H315 - Causes skin irritation. Skin corrosion/irritation Category 2

Specific target organ toxicity - single exposure

Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

Environmental hazards

long-term aquatic hazard

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

long lasting effects.

2.2. Label elements

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane Contains:

Hazard pictograms



Signal word Danger

Hazard statements

Extremely flammable aerosol. H222

Pressurized container: May burst if heated. H229

Causes skin irritation. H315

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May cause drowsiness or dizziness. H336 Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

Keep out of reach of children. P102

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

Avoid breathing mist/vapours. P261

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

Not assigned. Response

Storage

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

According to Regulation (EC) No. 648/2004 on Detergents, as amended; Contains: >30% Supplemental label information

aliphatic hydrocarbons.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	60 - 100	- 921-024-6	01-2119475514-35	-	
Classification:		2;H225, Skin Irrit. 2;F quatic Chronic 2;H41	1315, STOT SE 3;H336, Asր 1	o. Tox.	
n-hexane	<5	110-54-3 203-777-6	01-2119480412-44	601-037-00-0	#
Classification:	•		H315, Repr. 2;H361f, STOT H304, Aquatic Chronic 2;H4		
Specific Concentration Limits:	STOT RE	2;H373: C >= 5 %			

List of abbreviations and symbols that may be used above

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16. Composition comments

SECTION 4: First aid measures

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

protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

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

and special treatment needed

May cause drowsiness or dizziness. Headache, Nausea, vomiting, Skin irritation, May cause redness and pain.

Provide general supportive measures and treat symptomatically. Keep victim under observation. 4.3. Indication of any Symptoms may be delayed. immediate medical attention

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. 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

Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

from the substance or mixture

5.3. Advice for firefighters Special protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with

Special fire fighting procedures

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or manifer pazzles, if possible. If not, withdraw and let fire burn out

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. 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

Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For

personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. 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. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. 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. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA (MAK)	200 ppm	

Austria. MAK List, OEL Ordinance (Gw Components	Туре	Value	
n-hexane (CAS 110-54-3)	MAK	72 mg/m3	
(20 ppm	
	STEL	288 mg/m3	
		80 ppm	
Belgium. Exposure Limit Values			
Components	Туре	Value	
n-hexane (CAS 110-54-3)	TWA	72 mg/m3	
Thexame (externe externe)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 ppm	
Pulgaria OELa Bagulatian No. 42 an n	rataatian af warkers against ris		sical agente of work
Bulgaria. OELs. Regulation No 13 on p Components	Type	Value	lical agents at work
n-hexane (CAS 110-54-3)	TWA	72 mg/m3	
Thexame (externe externe)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 ppm	
One of the Demonstrate Out of the Comment			od O. Namadua Navdua (40/0)
Croatia. Dangerous Substance Exposu Components	Type	ce (ELVS), Annexes 1 an Value	id 2, Narodne Novine, 13/0
n-hexane (CAS 110-54-3)	MAC	72 mg/m3	
i-liexarie (CAS 110-54-3)	IVIAC	•	
		20 ppm	
Czech Republic. OELs. Government De Components	ecree 361 Type	Value	
<u> </u>			
n-hexane (CAS 110-54-3)	Ceiling	200 mg/m3	
	TWA	70 mg/m3	
Denmark. Exposure Limit Values Components	Туре	Value	
n-hexane (CAS 110-54-3)	TLV	72 mg/m3	
(20 ppm	
Estonia. OELs. Occupational Exposure Components	Limits of Hazardous Substanc Type	es (Regulation No. 105/ Value	2001, Annex), as amended
n-hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Finland. Workplace Exposure Limits			
Components	Туре	Value	
n-hexane (CAS 110-54-3)	STEL	2300 mg/m3	
,		630 ppm	
	TWA	72 mg/m3	
		20 ppm	
France			
Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic	STEL	1500 mg/m3	
s,< 5% n-hexane	TWA	1000 mg/m3	
France. OELs. Occupational Exposure		· ·	as amondod
Components	Type	Value	, as amenueu
n-hexane (CAS 110-54-3)	VME	72 mg/m3	
		20 ppm	
France. Threshold Limit Values (VLEP)	for Occupational Exposure to	Chemicals in France, IN	
Components	Туре	Value	Form
	VLE	1500 mg/m3	Vapour.
n-hexane (CAS 110-54-3)	VLE	1300 1119/1113	vapoui.

Components	Туре	Value Form
	VME	72 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
n the Work Area (DFG)	(advisory OELs). Commission for the Inves	stigation of Health Hazards of Chemical Compound
Components	Туре	Value
n-hexane (CAS 110-54-3)	TWA	180 mg/m3
		50 ppm
Germany - TRGS 900		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	700 mg/m3
	it Values in the Ambient Air at the Workpla	ce
Components	Туре	Value
n-hexane (CAS 110-54-3)	AGW	180 mg/m3
,		50 ppm
Greece. OELs (Decree No	90/1999 as amended)	•
Components	Type	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
Thexame (externior)		20 ppm
OFI - 1-1-4 B		_0 pp
Components	cree on Chemical Safety of Workplaces Type	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
celand. OELs. Regulation	n 154/1999 on occupational exposure limits	•
Components	Туре	Value
n-hexane (CAS 110-54-3)	TWA	90 mg/m3
		25 ppm
reland. Occupational Ex	posure Limits	
Components	Туре	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
,		20 ppm
taly. Occupational Expos	suro l imite	
Components	Type	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
Trioxano (orto 110 01 0)		20 ppm
		• •
	iai exposure limit values of chemical subst	ances in work environment Value
	Туре	value
Components		300 mg/m3
Components	Туре	
Components	Type STEL	300 mg/m3
Components n-hexane (CAS 110-54-3) Lithuania. OELs. Limit V	Type STEL	300 mg/m3 72 mg/m3 20 ppm
Components n-hexane (CAS 110-54-3) Lithuania. OELs. Limit Vo	Type STEL TWA alues for Chemical Substances, General Re	300 mg/m3 72 mg/m3 20 ppm equirements
Components n-hexane (CAS 110-54-3) Lithuania. OELs. Limit Vo	Type STEL TWA alues for Chemical Substances, General Re Type	300 mg/m3 72 mg/m3 20 ppm equirements Value 72 mg/m3
Components n-hexane (CAS 110-54-3)	Type STEL TWA alues for Chemical Substances, General Re Type	300 mg/m3 72 mg/m3 20 ppm equirements Value 72 mg/m3 20 ppm

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20 ppm

Malta OFI a Occumational Francoura Live	:+ \/-! (I N 227 £ 0	20 ppm
Maita. OELS. Occupational Exposure Lii Schedules I and V)	mit values (L.N. 227. of O	ccupational Health and Safety Authority Act (CAP. 424),
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 Cont	=	
Components	Type	Value
n-hexane (CAS 110-54-3)	TLV	72 mg/m3
		20 ppm
		n 6 June 2014 on the maximum permissible ork environment, Journal of Laws 2014, item 817 Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
Portugal. OELs. Decree-Law n. 290/2001 Components	(Journal of the Republic	: - 1 Series A, n.266) Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
,		20 ppm
Portugal. VLEs. Norm on occupational e	exposure to chemical age Type	ents (NP 1796) Value
n-hexane (CAS 110-54-3)	TWA	50 ppm
Romania. OELs. Protection of workers f	rom exposure to chemica	al agents at the workplace Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
,		20 ppm
Slovakia. OELs. Regulation No. 300/200	7 concerning protection (of health in work with chemical agents
Components	Type	Value
n-hexane (CAS 110-54-3)	STEL	140 mg/m3
		40 ppm
	TWA	72 mg/m3
		20 ppm
Slovenia. OELs. Regulations concerning (Official Gazette of the Republic of Slove		gainst risks due to exposure to chemicals while working
Components	Туре	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Spain. Occupational Exposure Limits Components	Туре	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Sweden		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	STEL (STV)	300 ppm

Sweden		
Components	Туре	Value
	TWA	200 ppm
Sweden. OELs. Work Environmen Components	t Authority (AV), Occupationa Type	l Exposure Limit Values (AFS 2015:7) Value
n-hexane (CAS 110-54-3)	Ceiling	180 mg/m3
		50 ppm
	TWA	72 mg/m3
		25 ppm
Switzerland		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	500 ppm
Switzerland. SUVA Grenzwerte am	n Arbeitsplatz	
Components	Туре	Value
n-hexane (CAS 110-54-3)	STEL	1440 mg/m3
		400 ppm
	TWA	180 mg/m3
		50 ppm
UK. EH40 Workplace Exposure Lir	mits (WELs)	
Components	Type	Value
n-hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm

Biological limit values

Components

n-hexane (CAS 110-54-3)

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended) Components **Determinant** Specimen **Sampling Time** Value n-hexane (CAS 110-54-3) 150 µg/l n-hexane Blood 0,2 mg/g 2-Hexanol Creatinine in urine 0,22 mmol/mol 2-Hexanol Creatinine in urine 40 ppm End-exhaled n-hexane air

n-hexane

n-hexane

Value

72 mg/m3 20 ppm

Type

TWA

1,74 umol/l

1,66 umol/l

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components Value Determinant Specimen Sampling Time

n-hexane (CAS 110-54-3) 5 mg/g 2,5-Hexanedio ne urine *

Blood

air

End-exhaled

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

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

Germany. TRGS 903, BAT List (Biological Limit Values) Components Value Determinant Specimen Sampling Time

n-hexane (CAS 110-54-3) 5 mg/l

2,5-Hexandion Urine *
plus
4,5-Dihydroxy2-hexanon
(nach
Hydrolyse)

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)	18 µmol/l	hexane-2,5-dio n	Urine	*
	2 mg/l	hexane-2,5-dio n	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 110-54-3)	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 *

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

Follow standard monitoring procedures.

procedures

Derived no effect levels (DNELs)

General population

Components	Value	Assessment factor Notes
Hydrocarbons, C6-C7, n-alkanes,isoalkane	es,cyclics,< 5% n-hexane (CAS	-)
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	699 mg/kg bw/day 608 mg/m3	
Long-term, Systemic, Irmalation Long-term, Systemic, Oral	699 mg/kg bw/day	
<u>Workers</u>		
Components	Value	Assessment factor Notes

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (CAS -)

Long-term, Systemic, Dermal 773 mg/kg bw/day Long-term, Systemic, Inhalation 2035 mg/m3

Predicted no effect Not available.

concentrations (PNECs)
Exposure guidelines

Croatia ELVs: Skin designation

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

Material name: AMBERKLENE LO30 - Ambersil - europe

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

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

Czech Republic PELs: Skin designation

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

Hungary OELs: Skin designation

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

Portugal VLEs Norm on Occupatioinal Exposure: Skin designation

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety

Individual protection measures, such as personal protective equipment

shower.

General informationUse personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

- Hand protection When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough

time of the glove should be longer than the total duration of product use. If work lasts longer than

the breakthrough time, gloves should be changed part-way through. Nitrile gloves are

recommended. Suitable gloves can be recommended by the glove supplier.

- Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with

organic vapour cartridge and full facepiece. (Filter type A)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquid.FormAerosol.ColourColourless.

Odour Characteristic odor.

Melting point/freezing point Not available.

Boiling point or initial boiling 88 °C (190,4 °F)

point and boiling range

Flammability Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1 %
Explosive limit - upper 8 %

(%)

Flash point

Auto-ignition temperature

Decomposition temperature

PH

Not available.

Not available.

Not available.

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Solubility

Immiscible with water Solubility (water)

Not available. **Partition coefficient**

(n-octanol/water) (log value)

Vapour pressure Not available.

Density and/or relative density

0,72 g/cm3 Relative density Vapour density Not available. **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate 4,2 (n-butyl acetate=1)

Viscosity 0,61 mm²/s

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous Carbon oxides.

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

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

occupational exposure.

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Skin irritation. May cause **Symptoms**

redness and pain.

11.1. Information on toxicological effects

Based on available data, the classification criteria are not met. **Acute toxicity**

Components **Test Results**

Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane

Acute Dermal

LD50 Rat 2920 mg/kg bw/day, 24 h

Inhalation

LC50 Rat 25200 mg/m³, 4 h

Oral

LD50 Rat 5840 mg/kg bw/day

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

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irritation

Direct contact with eyes may cause temporary irritation.

Based on available data, the classification criteria are not met. Respiratory sensitisation Based on available data, the classification criteria are not met. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

n-hexane (CAS 110-54-3)

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

Not available.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane

Aquatic

Acute

 Crustacea
 EC50
 Daphnia
 3 mg/l, 48 h

 Fish
 LC50
 Fish
 11,4 mg/l, 96 h

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

n-hexane 3,9

Bioconcentration factor (BCF) Not available

12.4. Mobility in soil12.5. Results of PBT and vPvB

assessment

No data available.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties

according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential. GWP: 1

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

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

disposal. 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 Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. 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.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping AEROSOLS, flammable

14.3. Transport hazard class(es) Class 2.1

> Subsidiary risk Not assigned.

2.1 Label(s)

Not assigned. Hazard No. (ADR)

Tunnel restriction code ADR/RID - Classification 5F

code:

14.4. Packing group Not assigned.

14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

UN1950 14.1. UN number

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2 1

Not assigned. Subsidiary risk 14.4. Packing group Not assigned.

14.5. Environmental hazards Yes **ERG Code**

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable, Marine pollutant

name

14.3. Transport hazard class(es) Class

Subsidiary risk Not assigned. Not assigned. 14.4. Packing group

14.5. Environmental hazards

Marine pollutant **EmS**

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments

Not established.

ADR: IATA: IMDG



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 and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 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

Regulation (EC) No. 1907/2006, REACH Article 59(10) 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

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

Not listed

Other EU regulations

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

n-hexane (CAS 110-54-3)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany). ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value. CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.

VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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. 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

Disclaimer

None.

Follow training instructions when handling this material.

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