SAFETY DATA SHEET
Rapidflex

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	17.10.2016

1.1. Product identifier

Product name	Rapidflex

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

Product group	Waterbaserd bitumen liquid membrane
Use of the substance/preparation	Water- and radonproof bitumen membrane for various applications.

1.3. Details of the supplier of the safety data sheet

Distributor

Company name	PazKar Nor AS
Postal address	Hellaveien 100
Postcode	1458
City	Fjellstrand
Country	Norway
Tel	+4798461575
E-mail	post@pazkarnor.com
Website	http://www.pazkarnor.com

1.4. Emergency telephone number

Emergency telephone	Giftinformasjonen:22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

CLP Classification, Comments	Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Supplemental label information	EUH 210 Safety data sheet available on request.

2.3. Other hazards

PBT / vPvB	PBT/vPvB assessment has not been performed.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Naphtha; low boiling naphtha	CAS no.: 8030-30-6 EC no.: 232-443-2	Flam. Liq. 2;H225; Asp. tox 1;H304; Aquatic Chronic 2;H411;	1,6 %
n-Hexane	CAS no.: 110-54-3 EC no.: 203-777-6 Index no.: 601-037-00-0 Synonyms: n-Hexane	Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373	0,08 - 0,19 %

		Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	

Substance comments: See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	Rinse the mouth and drink plenty of water. Do not induce vomiting. Get medical attention.

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

Acute symptoms and effects: May cause slight irritation.

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

Other Information: No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO_2), water mist, foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO_2). Carbon monoxide (CO). Hydrogen sulphide (H_2S). Hydrogen chloride (HCl). Sulphurous gases (SO_x). Calcium oxide.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. See also section 8.
Other Information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Remove all sources of ignition. Provide adequate ventilation.
Personal protection measures	Use protective equipment as referred to in section 8.

6.2. Environmental precautions

Environmental precautionary measures: Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Cleaning method: Absorb in vermiculite, dry sand or earth and place into containers. Collect in suitable containers and deliver as waste according to section 13.

6.4. Reference to other sections

Other instructions: See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use protective equipment as referred to in section 8.

Protective Safety Measures

Advice on general occupational hygiene	Wash hands after contact with the chemical. Change contaminated clothing and take off protective equipment before the meal. Do not eat, drink or smoke during work.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Store protected against heat and direct sunlight. Protect from frost.

Conditions for safe storage

Advice on storage compatability	Keep away from: Strong oxidizing agents. Acids.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Naphta; low boiling naphtha (Norwegian)	CAS no.: 8030-30-6 EC no.: 232-443-2	8-hour TWA: 50 ppm 8-hour TWA: 275 mg/m³	
N-hexane (Norwegian)	CAS no.: 110-54-3 EC no.: 203-777-6 Index no.: 601-037-00-0	8-hour TWA: 20 ppm 8-hour TWA: 72 mg/m³ R	

DNEL / PNEC from substances

Substance	Norwegian ADN N-hexane
DNEL	**Group:** Worker **Exposure route:** Dermal **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 11 mg/kg bw/d
DNEL	**Group:** Worker **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 75 mg/m³
DNEL	**Group:** Consumer **Exposure route:** Dermal **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 5,3 mg/kg bw/d
DNEL	**Group:** Consumer **Exposure route:** Inhalation **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 16 mg/m³
DNEL	**Group:** Consumer **Exposure route:** Oral **Exposure frequency:** Long term (repeated) **Type of effect:** Systemic effect **Value:** 4 mg/kg bw/d
Other Information about threshold limit values	References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og

	kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)". Explanation of the notations: R = Toxic for Reproduction.

8.2. Exposure controls

Limitation of exposure on workplace	The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipments suitability and durability will depend on application. Provide adequate ventilation.

Respiratory protection

Respiratory protection	Use filtercombination A/P2 while spraying.
Reference to relevant standard	EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking).

Hand protection

Hand protection	Use chemical resistant gloves. The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove.
Suitable gloves type	Butyl rubber.
Reference to relevant standard	BS-EN 420 (Protective gloves. General requirements and test methods). BS-EN 374 (Protective gloves against chemicals and micro-organisms).
Breakthrough time	No specific information from the manufacturer.
Thickness of glove material	No specific information from the manufacturer.
Additional hand protection measures	Replace gloves if signs of wear and tear.

Eye / face protection

Eye protection	Wear safety goggles if there is a risk of splash.
Reference to relevant standard	EN 166 (Personal eye-protection. Specifications).

Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent reasonably probable skin contact.

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

Other Information

Other Information	Eye wash facilities should be available when handling this chemical.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Paste.
Colour	Brown
Odour	Not specified by the manufacturer.
Comments, Odour limit	Not specified by the manufacturer.
pH (as supplied)	**Value:** 8-11
Freezing point	**Value:** -2 - 0 °C
Comments, Boiling point / boiling range	Not specified by the manufacturer.
Comments, Flash point	Not flammable.
Comments, Evaporation rate	Not specified by the manufacturer.
Flammability (solid, gas)	Not relevant, see flash point.
Comments, Explosion limit	Not specified by the manufacturer.
Comments, Vapour pressure	Not specified by the manufacturer.
Comments, Vapour density	Not specified by the manufacturer.

Density	**Value:** 1,15 g/cm3 **Temperature:** 25 °C
Solubility in water	Insoluble.
Comments, Partition coefficient: n-octanol / water	Not relevant for a mixture.
Comments, Spontaneous combustability	Not specified by the manufacturer.
Decomposition temperature	**Value:** < 100 °C
Comments, Viscosity	Viscous
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Other physical and chemical properties

Comments	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No reactivity hazards.

10.2. Chemical stability

Stability	The chemical is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid	Strong heat.

10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents. Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

LD50 oral	**Value:** 15840 mg/kg **Animal test species:** Rat **Comments:** CAS-nr.: 110-54-3
LC50 inhalation	**Value:** 48000 ppm **Animal test species:** Rat **Duration:** 4 h **Comments:** CAS-nr.: 110-54-3

Toxicological data for substances

Substance	Naphtha; low boiling naphtha
LD50 oral	**Value:** > 5000 mg/kg **Animal test species:** Rat
LD50 dermal	**Value:** > 3000 mg/kg **Animal test species:** Rabbit

Acute toxicity, Mixture estimate

Assessment of acute toxicity classification	Based on available data, the classification criteria are not met.

Potential acute effects

Inhalation	Low evaporation.
Skin contact	Slightly irritating. Degreases the skin. May cause dry skin or cracking of the

	skin and may also cause eczema.
Eye contact	Moderately irritating.
Ingestion	May irritate and cause malaise.
Assessment corrosion / irritation classification	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Assessment eye damage or irritation, classification	Based on available data, the classification criteria are not met.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The chemical is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills may be potentially hazardous.

Toxicological data for substances

Substance	Naphtha; low boiling naphtha
Acute aquatic, fish	**Value:** 8,8-9,2 mg/l **Method of testing:** LC50 **Duration:** 96 h
Acute aquatic, Daphnia	**Value:** 3,7 mg/l **Method of testing:** EC50 **Duration:** 48 h

12.2. Persistence and degradability

Persistence and degradability	Contains substances that are not considered readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.

12.4. Mobility in soil

Mobility	Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT assessment results	PBT assessment has not been performed.
vPvB evaluation results	vPvB assessment has not been performed.

12.6. Other adverse effects

Other adverse effects / Remarks	Do not allow to enter into sewer, water system or soil. Forms an oil film on water surfaces that may harm organisms in the water and disrupt oxygen transport in the boundary layer between air and water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Deliver to authorised waste vendor.
Product classified as hazardous waste	No

SECTION 14: Transport information

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

Comments	Not relevant.

14.6. Special precautions for user

Special safety precautions for user	Not entered.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	Not relevant.

SECTION 15: Regulatory information

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

References (laws/regulations)	FOR-2012-06-16 nr 622 Norwegian regulation on classification, labeling and packaging of substances and mixtures (CLP), with later amendments. FOR-2008-05-30 nr 516 Norwegian regulation on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulations on waste, no. 930/2004, from the Ministry of Environment. Dangerous Goods regulations.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3).	H373 May cause damage to organs through prolonged or repeated exposure H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H315 Causes skin irritation. H361f Suspected of damaging fertility. H225 Highly flammable liquid and vapour. H411 Toxic to aquatic life with long lasting effects.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road EWC: European Waste Code (a code from the EU's common classification system for waste) EC50: The effective concentration of substance that causes 50% of the maximum response IATA: The International Air Transport Association IMDG: The International Maritime Dangerous Goods Code LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test

	animals, which causes the death of 50%. PBT: Persistent, Bioaccumulative and Toxic RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail vPvB: very Persistent and very Bioaccumulative
Important data sources used to construct the safety data sheet	Suppliers Safety data sheet dated: 14.04.2016
Information which has been added, deleted or revised	New Safety Data Sheet.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
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Responsible for safety data sheet	PazKar Nor AS
Prepared by	Teknologisk Institutt as, Norway v/ Knut Finsveen