

according to Regulation (EC) No. 1907/2006

## Helmitin® 688

Version Revision Date: SDS Number: Date of last issue: -

1.0 03.04.2022 100000017112 Date of first issue: 03.04.2022

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

1.1 Product identifier

Product name : Helmitin® 688

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

Use of the Sub-

stance/Mixture

: Adhesive

Recommended restrictions

on use

: For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13

PT-4486-851 Mindelo - Vila do Conde

+351 229 288 200

E-mail address of person

responsible for the SDS

: EU-MSDS@hbfuller.com

1.4 Emergency telephone number

Emergency telephone number : +44 1235 239 670 (24 hours)

National Poisons Information Centre (NPIC): 01 809 2566 (24

hours)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.



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Long-term (chronic) aquatic hazard, Cat-

H411: Toxic to aquatic life with long lasting effects.

egory 2

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P273 Avoid release to the environment.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

P391 Collect spillage.

#### Hazardous components which must be listed on the label:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane propan-2-ol n-hexane

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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

#### 3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0 921-024-6 01-2119475514-35- 0000	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Skin Irrit. 2; H315 STOT SE 3; H336 (Respiratory system)	>= 90 - <= 100
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25- 0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
n-hexane	110-54-3 203-777-6 601-037-00-0 01-2119480412-44- 0000	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 ——————————————————————————————————	>= 2,5 - < 3

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice : If on clothes, remove clothes.

Move the victim to fresh air.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the



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accident.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of unconsciousness bring patient into stable side posi-

tion for transport.

In case of skin contact : Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical atten-

tion if eye irritation develops or persists.

If swallowed : If accidentally swallowed obtain immediate medical attention.

Rinse mouth with water.

If conscious, drink plenty of water.

Do NOT induce vomiting.

If symptoms persist, call a physician.

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

None known.

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

Treatment : No further relevant information available.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water mist Foam Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: Water with a full water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: No further relevant information available.

### 5.3 Advice for firefighters

Special protective equipment : No special protective measures against fire required.



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for firefighters

Further information : In the event of fire, wear self-contained breathing apparatus.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Use personal protective equipment.

Use breathing protection against the effects of

fumes/dust/aerosol.

Evacuate personnel to safe areas. Ensure adequate ventilation.

#### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water

courses or the soil.

Prevent the material from reaching sewage system, holes and

cellars.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust). Non-sparking tools should be used.

Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to sec-

tion 13.

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of dust and aerosols.

Use only with adequate ventilation. Take note of emission threshold.



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Use solvent-proof equipment.

Ensure that suitable extractors are available on processing

machines.

Handle with care.

Keep eye wash bottle available on working place.

Avoid release to the environment.

Keep away from children.

Advice on protection against

fire and explosion

Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mixtures in air. Highly volatile, flammable constituents are released during processing. In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Keep dark, cool and dry. Store in cool place.

Further information on stor-

age conditions

Keep containers tightly closed in a dry, cool and wellventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

7.3 Specific end use(s)

Specific use(s) : No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-2-ol	67-63-0	OELV - 8 hrs (TWA)	200 ppm	IE OEL
	Further information: Substances which have the capacity to penetrate intact			
	skin when they come in contact with it, and be absorbed into the body			
		OELV - 15 min	400 ppm	IE OEL
		(STEL)		
	Further information: Substances which have the capacity to penetrate intact			
	skin when they come in contact with it, and be absorbed into the body			
n-hexane	110-54-3	TWA	20 ppm	2006/15/EC
			72 mg/m3	
	Further information: Indicative			
		OELV - 8 hrs	20 ppm	IE OEL



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	(TWA)	72 mg/m3		
	Further information: Substances which have the capacity to penetrate intact			
	skin when they come in contact with it, and be absorbed into the body			

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, <5% n-hexane	Workers	Inhalation	Long-term systemic effects	2,035 mg/m3
n-hexane	Workers	Dermal	Long-term systemic effects	13 mg/kg
	Workers	Inhalation	Long-term systemic effects	93 mg/m3

#### 8.2 Exposure controls

## **Engineering measures**

Please take care on national and local requirements.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Remarks

: The glove material has to be impermeable and resistant to the product/the substance/the preparation.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

The gloves need to be disposed after the penetration time and replaced by new ones.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after

the work.

# For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:



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Butyl rubber (minimum thickness: 0.7 mm; penetration time:

15 min)

As protection from splashes gloves made of the follow-

ing materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with

long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable

nitrile glove.

Skin and body protection Protective clothing

Respiratory protection Use respiratory protection unless adequate local exhaust ven-

> tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In case of brief exposure or low pollution (exceeding of TLV)

use breathing filter apparatus.

In case of intensive or longer exposure use breathing appa-

ratus that is independent of circulating air.

Ensure that suitable extractors are available on processing

machines.

Protective measures Keep away from food, drink and animal feedingstuffs.

> Instantly remove any soiled and impregnated garments. Wash hands before breaks and immediately after handling

the product.

Avoid contact with the eyes and skin. Store protective clothing separately.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour characteristic

Odour Threshold is not determined

Melting point/freezing point is not determined

Initial boiling point and boiling : 78 °C

range



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Flash point : -9 °C

Auto-ignition temperature : is not determined

Decomposition temperature : not applicable

pH : is not determined

Solubility(ies)

Water solubility : not miscible or difficult to mix

Partition coefficient: n-

octanol/water

: no data available

Density : 0,71 g/cm3 (20 °C)

Relative vapour density : is not determined

9.2 Other information

Explosives : Product is not explosive. However, formation of explosive

vapour/air mixtures is possible.

Evaporation rate : is not determined

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical stability

No decomposition if used according to the specifications.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Develops readily flammable vapours/fumes.

10.4 Conditions to avoid

Conditions to avoid : No further relevant information available.

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

## 10.6 Hazardous decomposition products

No hazardous decomposition products are known.



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## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

**Product:** 

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

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

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

Components:

propan-2-ol:

Acute oral toxicity : LD50 Oral (Rat): 4.396 mg/kg

n-hexane:

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.000 mg/kg

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Components:**

n-hexane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,1 - 2,98

mg/l

Exposure time: 96 h

Test Type: flow-through test



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#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

#### **Product:**

Mobility : Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system., Very toxic to aquatic organisms, Toxic effects on fish and plankton, Danger to drinking water if

even extremely small quantities leak into soil.

#### 12.5 Results of PBT and vPvB assessment

## **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

Do not dispose of waste into sewer.

Hand over to disposers of hazardous waste.

The generation of waste should be avoided or minimized

wherever possible.

Incinerate under controlled conditions in accordance with all

local and national laws and regulations.

Disposal must be made according to official regulations.



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These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (\*).

#### Waste accruing during application:

08 04 09\* waste adhesives and sealants containing or-

ganic solvents or other dangerous substances

08 04 10 waste adhesives and sealants other than

those mentioned in 08 04 09

## Waste accruing during cleaning:

08 04 11\* adhesive and sealant sludges containing or-

ganic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than

those mentioned in 08 04 11

#### Waste packaging:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging 15 01 04 metallic packaging

15 01 10\* packaging containing residues of or contami-

nated by dangerous substances.

Contaminated packaging : Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

## 14.1 UN number or ID number

**ADR** : UN 1993

**RID** : UN 1993

IMDG : UN 1993 IATA : UN 1993

14.2 UN proper shipping name

**ADR** : FLAMMABLE LIQUID, N.O.S.

RID : FLAMMABLE LIQUID, N.O.S.

**IMDG** : FLAMMABLE LIQUID, N.O.S.

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



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hexane)

IATA : Flammable liquid, n.o.s.

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

hexane)

14.3 Transport hazard class(es)

ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

**ADR** : UN1993 **RID** : UN1993

**IMDG** 

Packing group : II
Labels : 3
EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing group : II

Labels : Flammable Liquids

IATA\_P (Passenger)

Packing group : II

Labels : Flammable Liquids

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

RID

Environmentally hazardous : no

**IMDG** 

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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## **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances.

mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

not applicable

acetic acid

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

not applicable

RoHS: 2011/65/EU, Restriction of Hazardous Substanc-

not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous

P<sub>5</sub>c

FLAMMABLE LIQUIDS

substances.

E2 **ENVIRONMENTAL HAZARDS** 

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

> emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 100,00 %, 715,0

g/l

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.



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The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

DSL : All components of this product are on the Canadian DSL

KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

REACH : On the inventory, or in compliance with the inventory

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

## **SECTION 16: Other information**

#### **Full text of H-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.
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.

#### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard

Eye Irrit. : Eye irritation

Flam. Liq. : Flammable liquids

Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure 2006/15/EC : Europe. Indicative occupational exposure limit values

IE OEL : Ireland. List of Chemical Agents and Occupational Exposure

Limit Values - Schedule 1

2006/15/EC / TWA : Limit Value - eight hours



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IE OEL / OELV - 8 hrs (TWA) Occupational exposure limit value (8-hour reference period) IE OEL / OELV - 15 min Occupational exposure limit value (15-minute reference peri-

(STEL) ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Other information This safety datasheet only contains information relating to

safety and does not replace any product information or prod-

uct specification.

**Contact Point** Prepared by: Global Regulatory Department

EU-MSDS@hbfuller.com

#### Classification of the mixture: Classification procedure:

Flam. Liq. 2 H225 Based on product data or assessment

Skin Irrit. 2 H315 Calculation method



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STOT	SE 3	H336	Calculation method
Asp.	Гох. 1	H304	Calculation method
Aquat	tic Chronic 2	H411	Calculation method

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.

IE / EN