

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

## Foster™ 60-44

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 21.04.2023

 2.0
 04.12.2023
 100000018436
 Date of first issue: 21.04.2023

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

1.1 Product identifier

Trade name : Foster™ 60-44

Product code : Foster™ 60-44

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

Use of the Sub- : Coating

stance/Mixture

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

Distributed By:

Temati Riinland 2

1948 RL Beverwijk The Netherlands

Phone: +31 (0) 251 22 91 72

1.4 Emergency telephone number

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



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#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :







Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements

## Prevention:

P243 Take action to prevent static discharges.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Storage:

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

P405 Store locked up.

## Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

xylenes

Hydrocarbons C9, aromatics

Hydrocarbons, C9-unsatd., polymd.

#### 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.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration	
	EC-No.		(% w/w)	
	Index-No.			
	Registration number			
xylenes	1330-20-7	Flam. Liq. 3; H226	>= 10 - < 25	
	215-535-7	Acute Tox. 4; H332		
	601-022-00-9	Acute Tox. 4; H312		
	01-2119488216-32-	Skin Irrit. 2; H315		
	0000	Asp. Tox. 1; H304		



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Hydrocarbons C9, aromatics	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35- 0000	2; H319 STOT SE 3; H335 STOT RE 2; H373 Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 5 - < 10
Hydrocarbons, C9-unsatd., polymd.	71302-83-5 615-276-3 01-2119555292-40- 0000	Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 5 - < 10
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	61789-77-3 263-087-6 01-2119486994-16- 0000	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	< 1

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

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.



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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

fighting

Specific hazards during fire- : No further relevant information available.

## 5.3 Advice for firefighters

for firefighters

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

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.



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#### **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. 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.



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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
xylenes	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

#### **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons C9, aromatics	Workers	Dermal	Long-term systemic effects	25 mg/kg
	Workers	Dermal	Acute systemic effects	25 mg/kg
	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Inhalation	Acute systemic ef-	150 mg/m3



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fects

## 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 peed to be disposed after the protection time.

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:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

# As protection from splashes gloves made of the following 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.



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Skin and body protection : Protective clothing

Respiratory protection : Use respiratory protection unless adequate risk management

measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recom-

mended 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

Appearance : liquid

Colour : black

Odour : characteristic

Odour Threshold : is not determined

pH : neutral

Melting point/freezing point : is not determined

Initial boiling point and boiling :

range

136 - 145 °C

Flash point : 23 °C

Evaporation rate : is not determined

Upper explosion limit / Upper

flammability limit

Upper explosion limit

7,1 %(V)

Lower explosion limit / Lower : Lower explosion limit



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flammability limit 1 %(V)

Vapour pressure : 10 hPa (20 °C)

20 hPa (20 °C)

Relative vapour density : is not determined

Density : 1,17 g/cm³ (20 °C)

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : 450 °C

Decomposition temperature : Not applicable

Viscosity

Viscosity, dynamic : 150.000 mPa.s (20 °C)

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Explosive properties : Product is not explosive. However, formation of explosive

vapour/air mixtures is possible.

#### 9.2 Other information

No data available

#### **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



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Materials to avoid : No further relevant information available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 Hours
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

## **Components:**

xylenes:

Partition coefficient: n- : log Pow: 2,77 - 3,15

octanol/water GLP: no

## 12.4 Mobility in soil

**Product:** 

Mobility : Medium: Soil

Remarks: Do not allow product to reach ground water, water

bodies or sewage system.



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#### 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 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.

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

## **SECTION 14: Transport information**

#### 14.1 UN number

ADN : UN 1139
ADR : UN 1139
RID : UN 1139
IMDG : UN 1139
IATA : UN 1139

Not permitted for transport

#### 14.2 UN proper shipping name

ADN : COATING SOLUTION

ADR : COATING SOLUTION

RID : COATING SOLUTION



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IMDG : COATING SOLUTION

IATA : COATING SOLUTION

Not permitted for transport

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA (Cargo) : 3

IATA\_P (Passenger) : Not permitted for transport

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

Remarks : Product is not subject to ADN in containers with a maximum

content of 450 litres (according to 2.2.3.1.5.1 ADN)!

**ADR** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

Remarks : Product is not subject to ADR in containers with a maximum

content of 450 litres (according to 2.2.3.1.5.1 ADR)!

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

Remarks : Product is not subject to RID in containers with a maximum

content of 450 litres (according to 2.2.3.1.5.1 RID)!

**IMDG** 

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



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Remarks For containers with a maximum content of 450 litres, the sim-

plified regulations according to 2.3.2.5 IMDG are applicable!

Not permitted for transport IATA (Cargo)

IATA\_P (Passenger) Not permitted for transport

14.5 Environmental hazards

**ADN** 

Environmentally hazardous no

**ADR** 

Environmentally hazardous

Environmentally hazardous no

**IMDG** 

Marine pollutant no

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 Transport in bulk according to Annex II of Marpol and the IBC Code

no

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

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

xylenes

REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59)

Not applicable

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



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RoHS: 2011/65/EU, Restriction of Hazardous Substanc- : Not applicable

es

Council Regulation (EC) No 111/2005 laying down rules for the manitoring of trade between the Community and

for the monitoring of trade between the Community and

third countries in drug precursors

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

of dangerous chemicals

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

Neither banned nor restricted

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 substances.

P5c FLAMMABLE LIQUIDS

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

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 22,6 %, 264,4 g/l

Not applicable

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

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**

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.



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H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Flam. Liq. : Flammable liquids Skin Corr. : Skin corrosion Skin Irrit. : Skin sensitisation : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit

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



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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; 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.

#### Modified data compared to the previous version

The following section has been updated:

- Section 14

Contact Point : Prepared by: Global Regulatory Department

EU-MSDS@hbfuller.com

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

Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

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