

**SAFETY DATA SHEET**

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

**Foster® 90-66A**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 31.03.2023     | 100000015061 | Date of first issue: 31.03.2023 |

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Foster® 90-66A  
Product code : Foster® 90-66A

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

Use of the Sub-  
stance/Mixture : Adhesive  
Recommended restrictions : For industrial use only.  
on use

**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  
Telephone : +448883513523  
Telefax : +448005286079  
E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com

**Distributed By:**

Temati  
Rijnland 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 2                  | H225: Highly flammable liquid and vapour.                |
| Skin irritation, Category 2                    | H315: Causes skin irritation.                            |
| Skin sensitisation, Category 1                 | H317: May cause an allergic skin reaction.               |
| Germ cell mutagenicity, Category 2             | H341: Suspected of causing genetic defects.              |
| Carcinogenicity, Category 2                    | H351: Suspected of causing cancer.                       |
| Reproductive toxicity, Category 2              | H361d: Suspected of damaging the unborn child.           |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 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              | : | Danger   |
| Hazard statements        | : | H225 Highly flammable liquid and vapour.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H341 Suspected of causing genetic defects.<br>H351 Suspected of causing cancer.<br>H361d Suspected of damaging the unborn child.<br>H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | <b>Prevention:</b><br>P201 Obtain special instructions before use.<br>P210 Keep away from heat, hot surfaces, sparks, open   |

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flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

toluene  
p-benzoquinone dioxime

#### 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.<br>EC-No.<br>Index-No.<br>Registration number          | Classification   | Concentration<br>(% w/w) |
|---|--|--|--------------------------|
| Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene) | 64742-95-6<br>265-199-0<br>649-356-00-4                        | Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411  | >= 10 - < 20             |
| toluene   | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51-0000 | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 | >= 3 - < 10              |
| 1,2,4-trimethylbenzene  | 95-63-6<br>202-436-9<br>601-043-00-3                           | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335   | >= 2,5 - < 10            |

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|  |   |   |               |
|--|---|---|---------------|
|  |   | (Respiratory system)<br>Aquatic Chronic 2;<br>H411  |               |
| p-benzoquinone dioxime                       | 105-11-3<br>203-271-5<br>01-2120798488-29-0000  | Expl. 1.1; H201<br>Flam. Sol. 2; H228<br>Acute Tox. 4; H302<br>Eye Irrit. 2; H319<br>Skin Sens. 1A;<br>H317<br>Muta. 2; H341<br>Carc. 2; H351<br>Aquatic Chronic 2;<br>H411 | >= 1 - < 2,5  |
| diethylbenzene                               | 25340-17-4<br>246-874-9                         | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410  | >= 0,25 - < 1 |
| Substances with a workplace exposure limit : |   |   |               |
| carbon black                                 | 1333-86-4<br>215-609-9<br>01-2119384822-32-0000 |   | >= 30 - < 50  |

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 position for transport.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

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If skin irritation persists, call a physician.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

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 for firefighters : 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 section 13.

### 6.4 Reference to other sections

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

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## 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 storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated 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      |
|--|-----------|--|----------------------------------|------------|
| carbon black   | 1333-86-4 | TWA  | 3,5 mg/m <sup>3</sup>            | GB EH40    |
|  |           | STEL   | 7 mg/m <sup>3</sup>              | GB EH40    |
| toluene  | 108-88-3  | TWA  | 50 ppm<br>191 mg/m <sup>3</sup>  | GB EH40    |
|  |           | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
|  |           | STEL   | 100 ppm<br>384 mg/m <sup>3</sup> | GB EH40    |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |           |  |                                  |            |
|  |           | TWA  | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC |
| Further information: Indicative, Identifies the possibility of significant uptake through the skin   |           |  |                                  |            |
|  |           | STEL   | 100 ppm<br>384 mg/m <sup>3</sup> | 2006/15/EC |

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|                        |  |     |                                 |            |
|------------------------|--|-----|---------------------------------|------------|
|                        | Further information: Indicative, Identifies the possibility of significant uptake through the skin |     |                                 |            |
| 1,2,4-trimethylbenzene | 95-63-6  | TWA | 20 ppm<br>100 mg/m <sup>3</sup> | 2000/39/EC |
|                        | Further information: Indicative  |     |                                 |            |

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

| Substance name  | End Use | Exposure routes | Potential health effects   | Value                 |
|---|---------|-----------------|----------------------------|-----------------------|
| Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene) | 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/m <sup>3</sup> |
|   | Workers | Inhalation      | Acute systemic effects     | 150 mg/m <sup>3</sup> |
| toluene   | Workers | Dermal          | Long-term systemic effects | 384 mg/kg             |
|   | Workers | Inhalation      | Acute systemic effects     | 384 mg/m <sup>3</sup> |
|   | Workers | Inhalation      | Acute local effects        | 384 mg/m <sup>3</sup> |
|   | Workers | Inhalation      | Long-term local effects    | 192 mg/m <sup>3</sup> |
|   | Workers | Inhalation      | Long-term systemic effects | 192 mg/m <sup>3</sup> |

#### Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value       |
|----------------|---------------------------|-------------|
| toluene        | Fresh water sediment      | 0,68 mg/l   |
|                | Marine sediment           | 0,68 mg/l   |
|                | Sewage treatment plant    | 13,61 mg/l  |
|                | Fresh water sediment      | 16,39 mg/kg |
|                | Marine sediment           | 16,39 mg/kg |
|                | Soil                      | 2,89 mg/kg  |

## 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



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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:**

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.

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 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 apparatus that is independent of circulating air. Ensure that suitable extractors are available on processing

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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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Appearance                                 | : liquid  |
| Colour                                     | : black   |
| Odour                                      | : solvent-like  |
| Odour Threshold                            | : is not determined   |
| pH   | : substance/mixture is non-polar/aprotic                    |
| Melting point/freezing point               | : is not determined   |
| Flash point                                | : 40 °C<br>104 °F<br>Method: Tag closed cup                 |
| Evaporation rate                           | : is not determined   |
| Relative vapour density                    | : is not determined   |
| Density                                    | : 1,1 - 1,2 g/cm <sup>3</sup>                               |
| Solubility(ies)<br>Water solubility        | : not miscible or difficult to mix                          |
| Partition coefficient: n-<br>octanol/water | : no data available   |
| Auto-ignition temperature                  | : is not determined   |
| Decomposition temperature                  | : Not applicable  |
| Explosive properties                       | : Product is not explosive. However, formation of explosive |

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vapour/air mixtures is possible.

#### 9.2 Other information

No data available

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### 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 toxicological effects

##### Acute toxicity

##### Product:

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

Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

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

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapour  
Method: Calculation method

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

#### Components:

##### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Acute inhalation toxicity : LC50 (Rat): 3400 ppm  
Exposure time: 4 Hours  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

##### **toluene:**

Acute oral toxicity : LD50 Oral (Rat): 5.580 mg/kg

Acute inhalation toxicity : LC50 (Rat): 12,5 mg/l  
Exposure time: 4 Hours

##### **1,2,4-trimethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3.400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 18 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3.160 mg/kg

#### **Carcinogenicity**

##### Components:

##### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9 mg/l  
Exposure time: 96 Hours

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6 mg/l  
Exposure time: 48 Hours

#### 1,2,4-trimethylbenzene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7,19 - 8,28 mg/l  
Exposure time: 96 Hours  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6,14 mg/l  
Exposure time: 48 Hours  
Test Type: static test

#### 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.

#### 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

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## 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

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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.

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## 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            |
| 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  |

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Labels : 3

#### ADR

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

#### RID

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

#### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)** : Not permitted for transport

**IATA\_P (Passenger)** : Not permitted for transport

#### 14.5 Environmental hazards

##### ADN

Environmentally hazardous : no

##### ADR

Environmentally hazardous : no

##### RID

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

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

Relevant EU provisions transposed through retained EU law

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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

1,2,4-trimethylbenzene  
xylenes  
mesitylene  
benzene (Number on list 72, 29, 28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 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: 29,3 %

#### 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

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

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



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

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

**15.2 Chemical safety assessment**

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

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**SECTION 16: Other information****Full text of H-Statements**

H201 : Explosive; mass explosion hazard.  
H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H228 : Flammable solid.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
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.  
H341 : Suspected of causing genetic defects.  
H351 : Suspected of causing cancer.  
H361d : Suspected of damaging the unborn child.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
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  
Carc. : Carcinogenicity

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|                   |  |
|-------------------|--|
| Expl.             | : Explosives   |
| Eye Irrit.        | : Eye irritation   |
| Flam. Liq.        | : Flammable liquids  |
| Flam. Sol.        | : Flammable solids   |
| Muta.             | : Germ cell mutagenicity   |
| Repr.             | : Reproductive toxicity  |
| Skin Irrit.       | : Skin irritation  |
| Skin Sens.        | : 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 |
| 2006/15/EC        | : Europe. Indicative occupational exposure limit values  |
| GB EH40           | : UK. EH40 WEL - Workplace Exposure Limits   |
| 2000/39/EC / TWA  | : Limit Value - eight hours  |
| 2006/15/EC / TWA  | : Limit Value - eight hours  |
| 2006/15/EC / STEL | : Short term exposure limit  |
| GB EH40 / TWA     | : Long-term exposure limit (8-hour TWA reference period)   |
| GB EH40 / STEL    | : Short-term exposure limit (15-minute reference period)   |

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; TECl -

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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 product specification.

Contact Point : Prepared by: Global Regulatory Department  
EU-MSDS@hbfuller.com

#### Classification of the mixture:

|                   |       |
|-------------------|-------|
| Flam. Liq. 2      | H225  |
| Skin Irrit. 2     | H315  |
| Skin Sens. 1      | H317  |
| Muta. 2           | H341  |
| Carc. 2           | H351  |
| Repr. 2           | H361d |
| Aquatic Chronic 3 | H412  |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| 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.

GB / EN

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

### 1.1 Product identifier

Trade name : Foster® 90-66B  
Product code : Foster® 90-66B

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

Use of the Sub-  
stance/Mixture : Adhesive  
Recommended restrictions : For industrial use only.  
on use

### 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  
Telephone : +448883513523  
Telefax : +448005286079  
E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com

#### Distributed By:

Temati  
Rijnland 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.                               |
| Reproductive toxicity, Category 2              | H361d: Suspected of damaging the unborn child.              |
| Short-term (acute) aquatic hazard, Category 1  | H400: Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects. |

### 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.<br>H315 Causes skin irritation.<br>H361d Suspected of damaging the unborn child.<br>H410 Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements | : | <b>Prevention:</b><br>P201 Obtain special instructions before use.<br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.<br><b>Response:</b><br>P370 + P378 In case of fire: Use dry sand, dry chemical or |

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alcohol-resistant foam to extinguish.  
P391 Collect spillage.

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

toluene

#### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number           | Classification   | Concentration<br>(% w/w) |
|---|---|--|--------------------------|
| Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene) | 64742-95-6<br>265-199-0<br>649-356-00-4                         | Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411  | >= 10 - < 20             |
| toluene   | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51-0000  | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 | >= 3 - < 10              |
| 1,2,4-trimethylbenzene  | 95-63-6<br>202-436-9<br>601-043-00-3                            | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>Aquatic Chronic 2;<br>H411                   | >= 2,5 - < 10            |
| Manganese dioxide   | 1313-13-9<br>215-202-6<br>025-001-00-3<br>01-2119452801-43-0000 | Acute Tox. 4; H302<br>Acute Tox. 4; H332   | >= 1 - < 10              |

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|  |   |  |               |
|--|---|--|---------------|
| Terphenyl, hydrogenated                      | 61788-32-7<br>262-967-7                             | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10 | >= 2,5 - < 10 |
| terphenyl                                    | 26140-60-3<br>247-477-3                             | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10 | >= 0,25 - < 1 |
| diethylbenzene                               | 25340-17-4<br>246-874-9                             | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410                             | >= 0,25 - < 1 |
| Substances with a workplace exposure limit : |   |  |               |
| carbon black                                 | 1333-86-4<br>215-609-9<br>01-2119384822-32-<br>0000 |  | >= 30 - < 50  |

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-

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- 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 attention 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 circumstances and the surrounding environment.  
Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- 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 for firefighters : 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



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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 section 13.

### 6.4 Reference to other sections

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

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## 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.

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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 storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated 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      |
|--|-----------|--|----------------------------------|------------|
| carbon black   | 1333-86-4 | TWA  | 3,5 mg/m <sup>3</sup>            | GB EH40    |
|  |           | STEL   | 7 mg/m <sup>3</sup>              | GB EH40    |
| toluene  | 108-88-3  | TWA  | 50 ppm<br>191 mg/m <sup>3</sup>  | GB EH40    |
|  |           | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
|  |           | STEL   | 100 ppm<br>384 mg/m <sup>3</sup> | GB EH40    |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |           |  |                                  |            |
|  |           | TWA  | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC |

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|                         |   |      |                                      |             |
|-------------------------|---|------|--------------------------------------|-------------|
|                         | Further information: Indicative, Identifies the possibility of significant uptake through the skin  |      |                                      |             |
|                         |   | STEL | 100 ppm<br>384 mg/m <sup>3</sup>     | 2006/15/EC  |
|                         | Further information: Indicative, Identifies the possibility of significant uptake through the skin  |      |                                      |             |
| 1,2,4-trimethylbenzene  | 95-63-6   | TWA  | 20 ppm<br>100 mg/m <sup>3</sup>      | 2000/39/EC  |
|                         | Further information: Indicative   |      |                                      |             |
| Manganese dioxide       | 1313-13-9   | TWA  | 0,5 mg/m <sup>3</sup><br>(Manganese) | GB EH40     |
|                         | Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |      |                                      |             |
|                         |   | TWA  | 0,5 mg/m <sup>3</sup><br>(Manganese) | GB EH40     |
|                         | Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |      |                                      |             |
| Terphenyl, hydrogenated | 61788-32-7  | TWA  | 2 ppm<br>19 mg/m <sup>3</sup>        | GB EH40     |
|                         |   | STEL | 5 ppm<br>48 mg/m <sup>3</sup>        | GB EH40     |
|                         |   | TWA  | 2 ppm<br>19 mg/m <sup>3</sup>        | 2017/164/EU |
|                         | Further information: Indicative   |      |                                      |             |
|                         |   | STEL | 5 ppm<br>48 mg/m <sup>3</sup>        | 2017/164/EU |
|                         | Further information: Indicative   |      |                                      |             |
| terphenyl               | 26140-60-3  | STEL | 0,5 ppm<br>4,8 mg/m <sup>3</sup>     | GB EH40     |

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

| Substance name  | End Use | Exposure routes | Potential health effects   | Value                 |
|---|---------|-----------------|----------------------------|-----------------------|
| Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene) | 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/m <sup>3</sup> |
|   | Workers | Inhalation      | Acute systemic effects     | 150 mg/m <sup>3</sup> |
| toluene   | Workers | Dermal          | Long-term systemic effects | 384 mg/kg             |
|   | Workers | Inhalation      | Acute systemic effects     | 384 mg/m <sup>3</sup> |

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|  |         |            |                            |                       |
|--|---------|------------|----------------------------|-----------------------|
|  | Workers | Inhalation | Acute local effects        | 384 mg/m <sup>3</sup> |
|  | Workers | Inhalation | Long-term local effects    | 192 mg/m <sup>3</sup> |
|  | Workers | Inhalation | Long-term systemic effects | 192 mg/m <sup>3</sup> |

#### Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value       |
|----------------|---------------------------|-------------|
| toluene        | Fresh water sediment      | 0,68 mg/l   |
|                | Marine sediment           | 0,68 mg/l   |
|                | Sewage treatment plant    | 13,61 mg/l  |
|                | Fresh water sediment      | 16,39 mg/kg |
|                | Marine sediment           | 16,39 mg/kg |
|                | Soil                      | 2,89 mg/kg  |

## 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 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.

- 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 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 apparatus 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 : solvent-like
- Odour Threshold : is not determined
- pH : substance/mixture is non-polar/aprotic

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|  |   |  |
|--|---|--|
| Melting point/freezing point           | : | is not determined  |
| Flash point                            | : | 24 °C  |
| Evaporation rate                       | : | is not determined  |
| Relative vapour density                | : | is not determined  |
| Density                                | : | 1,1 - 1,2 g/cm <sup>3</sup>  |
| Solubility(ies)<br>Water solubility    | : | not miscible or difficult to mix   |
| Partition coefficient: n-octanol/water | : | no data available  |
| Auto-ignition temperature              | : | is not determined  |
| Decomposition temperature              | : | Not applicable   |
| Explosive properties                   | : | Product is not explosive. However, formation of explosive vapour/air mixtures is possible. |

#### 9.2 Other information

No data available

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## 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 toxicological effects

#### Acute toxicity

##### Product:

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

Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

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

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapour  
Method: Calculation method

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

##### Components:

#### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Acute inhalation toxicity : LC50 (Rat): 3400 ppm  
Exposure time: 4 Hours  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

#### **toluene:**

Acute oral toxicity : LD50 Oral (Rat): 5.580 mg/kg

Acute inhalation toxicity : LC50 (Rat): 12,5 mg/l  
Exposure time: 4 Hours

#### **1,2,4-trimethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3.400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 18 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3.160 mg/kg

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#### Carcinogenicity

##### Components:

##### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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## SECTION 12: Ecological information

### 12.1 Toxicity

##### Components:

##### **Solvent naphtha (petroleum), light arom. (Contains less than 0.1 % w/w benzene):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9 mg/l  
Exposure time: 96 Hours

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6 mg/l  
Exposure time: 48 Hours

##### **1,2,4-trimethylbenzene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7,19 - 8,28 mg/l  
Exposure time: 96 Hours  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6,14 mg/l  
Exposure time: 48 Hours  
Test Type: static test

##### **Terphenyl, hydrogenated:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0,53 mg/l  
Exposure time: 96 Hours  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,011 mg/l  
Exposure time: 48 Hours  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 0,53 mg/l  
Exposure time: 96 Hours  
Test Type: flow-through test

M-Factor (Acute aquatic tox- : 10



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icity)

M-Factor (Chronic aquatic toxicity) : 10

#### **terphenyl:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,11 mg/l  
Exposure time: 96 Hours  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,11 mg/l  
Exposure time: 48 Hours  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,02 mg/l  
Exposure time: 96 Hours  
Test Type: flow-through test

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

#### **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.

#### **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.

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#### 12.6 Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

|                        |   |   |
|------------------------|---|---|
| Product                | : | Do not dispose of with domestic refuse.<br>Do not dispose of waste into sewer.<br>Hand over to disposers of hazardous waste.<br>The generation of waste should be avoided or minimized wherever possible.<br>Incinerate under controlled conditions in accordance with all local and national laws and regulations.<br>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<br>Not permitted for transport |

#### 14.2 UN proper shipping name

|      |   |   |
|------|---|---|
| ADN  | : | COATING SOLUTION                                |
| ADR  | : | COATING SOLUTION                                |
| RID  | : | COATING SOLUTION                                |
| IMDG | : | COATING SOLUTION<br>(Terphenyl, hydrogenated)   |
| IATA | : | COATING SOLUTION<br>Not permitted for transport |

#### 14.3 Transport hazard class(es)

|     |   |   |
|-----|---|---|
| ADN | : | 3 |
| ADR | : | 3 |

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**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

**ADR**

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

**RID**

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

**IMDG**

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)** : Not permitted for transport

**IATA\_P (Passenger)** : Not permitted for transport

**14.5 Environmental hazards****ADN**

Environmentally hazardous : no

**ADR**

Environmentally hazardous : yes

**RID**

Environmentally hazardous : yes

**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

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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

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

1,2,4-trimethylbenzene  
xylenes  
mesitylene  
benzene (Number on list 72, 29, 28)

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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

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

E1 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: 28,5 %

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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 |
| REACH | : | On the inventory, or in compliance with the inventory  |
| AIC   | : | On the inventory, or in compliance with the inventory  |
| ENCS  | : | On the inventory, or in compliance with the inventory  |
| 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  |

#### 15.2 Chemical safety assessment

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

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### SECTION 16: Other information

#### Full text of H-Statements

|       |   |  |
|-------|---|--|
| H225  | : | Highly flammable liquid and vapour.                                |
| H226  | : | Flammable liquid and vapour.                                       |
| H302  | : | Harmful if swallowed.  |
| H304  | : | May be fatal if swallowed and enters airways.                      |
| H315  | : | Causes skin irritation.  |
| H319  | : | Causes serious eye irritation.                                     |
| H332  | : | Harmful if inhaled.  |
| H335  | : | May cause respiratory irritation.                                  |
| H336  | : | May cause drowsiness or dizziness.                                 |
| H361d | : | Suspected of damaging the unborn child.                            |
| H373  | : | May cause damage to organs through prolonged or repeated exposure. |
| H400  | : | Very toxic to aquatic life.  |
| H410  | : | Very toxic to aquatic life with long lasting effects.              |

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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  
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  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
2006/15/EC : Europe. Indicative occupational exposure limit values  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2000/39/EC / TWA : Limit Value - eight hours  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / STEL : Short term exposure limit  
2017/164/EU / STEL : Short term exposure limit  
2017/164/EU / TWA : Limit Value - eight hours  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

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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; TECL - 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 product specification.

Contact Point : Prepared by: Global Regulatory Department  
EU-MSDS@hbfuller.com

#### Classification of the mixture:

|                   |       |
|-------------------|-------|
| Flam. Liq. 3      | H226  |
| Skin Irrit. 2     | H315  |
| Repr. 2           | H361d |
| Aquatic Acute 1   | H400  |
| Aquatic Chronic 1 | H410  |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| 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.

GB / EN