Safety Data Sheet

according to Regulation (EC) No 1907/2006

740(E) Heavy Duty Rust Guard (Bulk)

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

1.1. Product identifier

740(E) Heavy Duty Rust Guard (Bulk)

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

Use of the substance/mixture

Coats and protects metal like a paint with minimum surface preparation but is easily removable. Heavy Duty Rust Guard can be used for the protection of metal, tools, fixtures, parts-in-process, equipment, tanks, structures, machinery, tubing, castings, rod, bar and sheet stock. Effective to 80°C (175°F).

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Chesterton International GmbH
Street: Am Lenzenfleck 23
Place: DE-85737 Ismaning GERMANY
Telephone: +49 89 99 65 46 - 0
Telefax: +49 89 99 65 46 - 50

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH210 Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
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Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>50-70%</td>
</tr>
<tr>
<td>926-141-6</td>
<td>01-2119456620-43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, Asp. Tox. 1; H226 H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>5-15%</td>
</tr>
<tr>
<td>926-141-6</td>
<td>01-2119456620-43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Asp. Tox. 1; H304</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

Further Information
No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a doctor.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion
Do NOT induce vomiting.
Immediately call a doctor.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

4.3. Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media
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Suitable extinguishing media
Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide

5.3. Advice for firefighters
Special protective equipment for firefighters Protective clothing.
In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
See protective measures under point 7 and 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
See section 8. Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion
Take precautionary measures against static discharges.
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling
When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Store in a cool dry place. Keep container tightly closed.
Keep/Store only in original container.
Protect against direct sunlight.
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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protect against: Frost

Hints on joint storage
Keep away from: Oxidising agent

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations.
Take action to prevent static discharges.

Protective and hygiene measures
Only wear fitting, comfortable and clean protective clothing.
Avoid contact with skin, eyes and clothes.
When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a
shower if necessary.
Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior
to re-use. Apply skin care products after work.

Eye/face protection
Suitable eye protection:
goggles

Hand protection
Suitable gloves type: NBR (Nitrile rubber)
Wearing time with permanent contact: Thickness of the glove material: >= 0,7 mm, Breakthrough time
(maximum wearing time): >480 min
Wearing time with occasional contact (splashes): Thickness of the glove material: >= 0,4 mm, Breakthrough
time (maximum wearing time) > 30 min
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves
mentioned above together with the supplier of these gloves.

Skin protection
Wear anti-static footwear and clothing

Respiratory protection
Usually no personal respirative protection necessary.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device (full mask or mouthpiece) with filter: ABEK-P2

Environmental exposure controls
No special measures are necessary.
## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>transparent brown</td>
</tr>
<tr>
<td>Odour</td>
<td>like Petroleum</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

### Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
</tr>
<tr>
<td>Softening point</td>
<td>not determined</td>
</tr>
<tr>
<td>Pour point</td>
<td>6 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>73 °C</td>
</tr>
</tbody>
</table>

### Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
</tbody>
</table>

### Explosive properties

- No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>297 °C</td>
</tr>
</tbody>
</table>

### Auto-ignition temperature

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
</tbody>
</table>

### Oxidizing properties

- No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>0,88 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>practically insoluble</td>
</tr>
</tbody>
</table>

### Solubility in other solvents

- No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Viscosity / dynamic</td>
<td>100-1000 mPa·s</td>
</tr>
<tr>
<td>(at 25 °C)</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
</tbody>
</table>
9.2. Other information

Solid content: ~52%

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability
The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
This material is considered to be non-reactive under normal use conditions.

10.4. Conditions to avoid
This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

10.5. Incompatible materials
Strong acid, Strong alkali, Oxidising agent

10.6. Hazardous decomposition products
Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td>Study report (1995)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rabbit</td>
<td>Study report (1993)</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td>Study report (1995)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rabbit</td>
<td>Study report (1993)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) vapour</td>
<td>LC50 mg/l</td>
<td>&gt;4951</td>
<td>Rat</td>
<td>Study report 2005</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Based on available data, the classification criteria are not met.
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Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

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

STOT-repeated exposure
Repeated exposure may cause skin dryness or cracking.

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

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 mg/l</td>
<td>&gt; 1000</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>Study report (1994)</td>
<td>OECD Guideline 201</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish toxicity</td>
<td>NOEC mg/l</td>
<td>0,173</td>
<td>28 d</td>
<td>Oncorhynchus mykiss</td>
<td>CONCAWE, Brussels, Belgium (2010)</td>
<td>The aquatic toxicity was estimated by a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC mg/l</td>
<td>1,22</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td>Company report (2010)</td>
<td>The aquatic toxicity was estimated by a</td>
</tr>
</tbody>
</table>

64742-47-8 Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

| Acute fish toxicity | LC50 mg/l | >1000 | 96 h |
| Acute algae toxicity | ErC50 mg/l | > 1000 | 72 h | Pseudokirchneriella subcapitata | Study report (1994) | OECD Guideline 201 |
| Acute crustacea toxicity | EC50 mg/l | >1000 | 48 h |
| Fish toxicity | NOEC mg/l | 0,173 | 28 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| Crustacea toxicity | NOEC mg/l | 1,22 | 21 d | Daphnia magna | Company report (2010) | The aquatic toxicity was estimated by a |

12.2. Persistence and degradability
No information available.
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<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>Evaluation</td>
<td>77-83%</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>&gt;4</td>
</tr>
</tbody>
</table>

BCF

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>144,3</td>
<td>calculated</td>
<td>Other company data (</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled.

Packing which cannot be properly cleaned must be disposed of.
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
## 14. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

### 14.4. Packing group:
No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

#### 14.1. UN number:
No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:
No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:
No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

#### 14.1. UN number:
No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:
No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:
No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/ICAO-DGR)

#### 14.1. UN number:
No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:
No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:
No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** no

### 14.6. Special precautions for user

No information available.

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

No information available.

## SECTION 15: Regulatory information

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

**National regulatory information**
Water contaminating class (D):
2 - clearly water contaminating

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
- Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
- Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

## SECTION 16: Other information

**Abbreviations and acronyms**
- **ADR**: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- **RID**: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH210 Safety data sheet available on request.

Further Information

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)