1. Identification

Product identifier used on the label

MasterFlow 648 Low Dust Part B

Recommended use of the chemical and restriction on use

Recommended use*: for industrial and professional users

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller’s sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: No applicable information available.

2. Hazards Identification


Classification of the product

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hazard Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr./Irrit.</td>
<td>1B</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Eye Dam./Irrit.</td>
<td>1</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>Skin Sens.</td>
<td>1B</td>
<td>Skin sensitization</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>3</td>
<td>Hazardous to the aquatic environment - acute</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>3</td>
<td>Hazardous to the aquatic environment - chronic</td>
</tr>
</tbody>
</table>

Label elements

Pictogram:
Signal Word:
Danger

Hazard Statement:
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust or mist.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Storage):
P405 Store locked up.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-24-3</td>
<td>&gt;= 25.0 - &lt; 50.0%</td>
<td>triethylenetetramine</td>
</tr>
<tr>
<td>90-72-2</td>
<td>&gt;= 10.0 - &lt; 15.0%</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
</tr>
<tr>
<td>112-57-2</td>
<td>&gt;= 3.0 - &lt; 10.0%</td>
<td>3,6,9-triazaundecamethylene-1,11-diamine</td>
</tr>
<tr>
<td>71074-89-0</td>
<td>&gt;= 1.0 - &lt; 3.0%</td>
<td>Phenol, bis[dimethylamino)methyl]-</td>
</tr>
</tbody>
</table>
4. First-Aid Measures

**Description of first aid measures**

**General advice:**
First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

**If inhaled:**
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

**Most important symptoms and effects, both acute and delayed**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Hazards: No applicable information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physician**

**Treatment:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

**Extinguishing media**

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

**Special hazards arising from the substance or mixture**

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Advice for fire-fighters**
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Conditions for safe storage, including any incompatibilities
No applicable information available.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:
No applicable information available.

Personal protective equipment
Respiratory protection:
Wear appropriate certified respirator when exposure limits may be exceeded.
Hand protection: 
Wear chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: 
Safety glasses with side-shields.

Body protection: 
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: 
Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid
Odour: amine-like
Odour threshold: No applicable information available.
Colour: amber to yellowish
pH value: No applicable information available.
Melting point: No applicable information available.
Boiling point: approx. 205.00 °C Cannot be distilled without decomposition at normal pressure. (ASTM D 86)
Sublimation point: No applicable information available.
Flash point: 163.00 °C (calculated)
Flammability: not flammable
Lower explosion limit: No applicable information available.
Upper explosion limit: No applicable information available.
Autoignition: No applicable information available.
Vapour pressure: No applicable information available.
Density: 8.014 lb/USg
Relative density: No applicable information available.
Vapour density: No applicable information available.
Partitioning coefficient n-octanol/water (log Pow): No applicable information available.
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: 70.000 mPa.s (OECD 114)
Solubility in water: No applicable information available.
Solubility (quantitative): No applicable information available.
Solubility (qualitative): No applicable information available.
Evaporation rate: 
Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
Not an oxidizer.

**Chemical stability**
The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**
The product is stable if stored and handled as prescribed/indicated.

**Conditions to avoid**
See MSDS section 7 - Handling and storage.

**Incompatible materials**
strong acids, strong bases, strong oxidizing agents, strong reducing agents

**Hazardous decomposition products**
Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

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**11. Toxicological information**

**Primary routes of exposure**
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity/Effects**

**Acute toxicity**
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Based on available Data, the classification criteria are not met.

**Inhalation**
No applicable information available.

**Assessment other acute effects**
No applicable information available.

**Irritation / corrosion**
Assessment of irritating effects: Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

**Sensitization**
Assessment of sensitization: Sensitization after skin contact possible.

**Chronic Toxicity/Effects**

**Repeated dose toxicity**
Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.
Genetic toxicity
Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity
Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Teratogenicity
Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Other Information
The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity
Aquatic toxicity
Assessment of aquatic toxicity:
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability
Assessment biodegradation and elimination (H2O)
Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.
The polymer component of the product is poorly biodegradable.

Bioaccumulative potential
Assessment bioaccumulation potential
Discharge into the environment must be avoided.

Mobility in soil
Assessment transport between environmental compartments
No data available.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.
13. Disposal considerations

**Waste disposal of substance:**
Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

**Container disposal:**
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

**Land transport**
USDOT
- Hazard class: 8
- Packing group: III
- ID number: UN 1760
- Hazard label: 8
- Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

**Sea transport**
IMDG
- Hazard class: 8
- Packing group: III
- ID number: UN 1760
- Hazard label: 8
- Marine pollutant: NO
- Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

**Air transport**
IATA/ICAO
- Hazard class: 8
- Packing group: III
- ID number: UN 1760
- Hazard label: 8
- Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

15. Regulatory Information

**Federal Regulations**

**Registration status:**
Chemical TSCA, US released / listed
EPCRA 311/312 (Hazard categories): Acute;

**State regulations**

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
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<td></td>
<td>112-57-2</td>
<td>3,6,9-triazaundecamethylene-1,11-diamine</td>
</tr>
</tbody>
</table>

**NFPA Hazard codes:**

- Health: 3
- Fire: 1
- Reactivity: 0
- Special:

### 16. Other Information

**SDS Prepared by:**
BASF NA Product Regulations  
SDS Prepared on: 2015/07/13

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