

Safety Data Sheet

MasterInject 1500 PART B also CONGRESIVE STANDARD LVI PTB

Revision date : 2014/05/13
Version: 4.0

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1. Identification

Product identifier used on the label

MasterInject 1500 PART B also CONGRESIVE STANDARD LVI PTB

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 US 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 data available.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

| | | |
|-------------------|-----------------------|-----------------------------------|
| Flam. Liq. | 4 | Flammable liquid |
| Acute Tox. | 4 (oral) | Acute toxicity |
| Acute Tox. | 3 (Inhalation - mist) | Acute toxicity |
| Skin Corr./Irrit. | 1A | Skin corrosion/irritation |
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Skin Sens. | 1 | Skin sensitization |

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| | | |
|---------|---|--|
| Muta. | 2 | Germ cell mutagenicity |
| Carc. | 2 | Carcinogenicity |
| STOT RE | 2 | Specific target organ toxicity — repeated exposure |

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

| | |
|------|---|
| H227 | Combustible liquid. |
| H331 | Toxic if inhaled. |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H341 | Suspected of causing genetic defects. |
| H373 | May cause damage to organs (Skin) through prolonged or repeated exposure. |
| H314 | Causes severe skin burns and eye damage. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. – No smoking. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash with plenty of water and soap thoroughly after handling. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P303 + P361 + P352 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P301 + P330 | IF SWALLOWED: rinse mouth. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P370 + P378 | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction. |

Precautionary Statements (Storage):

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P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
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.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 6 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 83 - 85 % Inhalation - mist

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

DANGER:
COMBUSTIBLE.
HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY CAUSE BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Keep container tightly closed.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|---------------------------------------|
| 25620-58-0 | >= 20.0 - < 25.0 % | 1,6-Hexanediamine, C,C,C-trimethyl- |
| 111-40-0 | >= 7.0 - < 10.0 % | 2,2'-iminodi(ethylamine) |
| 90-72-2 | >= 7.0 - < 10.0 % | 2,4,6-tris(dimethylaminomethyl)phenol |
| 89-72-5 | >= 3.0 - < 5.0 % | Phenol, 2-(1-methylpropyl)- |
| 108-95-2 | >= 1.0 - < 3.0 % | phenol |
| 124-09-4 | >= 1.0 - < 3.0 % | hexamethylenediamine |
| 694-83-7 | >= 1.0 - < 3.0 % | cyclohex-1,2-ylene diamine |
| 71074-89-0 | >= 1.0 - < 3.0 % | Phenol, bis[(dimethylamino)methyl]- |
| 100-42-5 | >= 0.1 - <= 0.2 % | Styrene |

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|---------------------------------------|
| 25620-58-0 | >= 15.0 - <= 40.0 % | 1,6-Hexanediamine, C,C,C-trimethyl- |
| 111-40-0 | >= 7.0 - <= 13.0 % | 2,2'-iminodi(ethylamine) |
| 90-72-2 | >= 7.0 - <= 13.0 % | 2,4,6-tris(dimethylaminomethyl)phenol |
| 89-72-5 | >= 1.0 - <= 5.0 % | Phenol, 2-(1-methylpropyl)- |

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| | | |
|----------|-------------------|----------------------------|
| 108-95-2 | >= 1.0 - <= 5.0 % | phenol |
| 124-09-4 | >= 1.0 - <= 5.0 % | hexamethylenediamine |
| 694-83-7 | >= 1.0 - <= 5.0 % | cyclohex-1,2-ylene diamine |
| 100-42-5 | >= 0.1 - <= 1.0 % | Styrene |

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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:
carbon dioxide, dry powder, foam, water spray

Special hazards arising from the substance or mixture

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

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Keep containers cool by spraying with water if exposed to fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. 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

Keep away from sources of ignition - No smoking. Keep container tightly sealed. Handle and open container with care.

Protection against fire and explosion:

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: tin (tinplate)

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. Store protected against freezing.

Protect from temperatures below: 5 °C

The packed product must be protected from temperatures below the indicated one.

Protect from temperatures below: 40 °F

The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

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| | | |
|-----------------------------|-----------|--|
| Phenol, 2-(1-methylpropyl)- | ACGIH TLV | TWA value 5 ppm ; Skin Designation ; The substance can be absorbed through the skin. |
| phenol | OSHA PEL | PEL 5 ppm 19 mg/m3 ; Skin Designation ; The substance can be absorbed through the skin. |
| | ACGIH TLV | TWA value 5 ppm ; Skin Designation ; The substance can be absorbed through the skin. |
| 2,2'-iminodi(ethylamine) | ACGIH TLV | TWA value 1 ppm ; Skin Designation ; The substance can be absorbed through the skin. |
| hexamethylenediamine | ACGIH TLV | TWA value 0.5 ppm ; |
| | WEEL | TWA value 1 ppm 5 mg/m3 ; |

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:

Wear chemical resistant protective gloves., Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Handle in accordance with good building materials hygiene and safety practice. 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: | ammonia-like | |
| Odour threshold: | | No applicable information available. |
| Colour: | amber | |
| pH value: | | not applicable |
| Melting point: | | No applicable information available. |
| Boiling point: | 206 °C | |

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| | | |
|---|---|--------------------------------------|
| Sublimation temperature: | | No applicable information available. |
| Flash point: | 90 °C | |
| Flammability: | not highly flammable | |
| Lower explosion limit: | | No data available. |
| Upper explosion limit: | | No data available. |
| Vapour pressure: | | No applicable information available. |
| Density: | 0.97 g/cm ³ | (20 °C) |
| Relative density: | 0.97 | |
| Bulk density: | | not applicable |
| Vapour density: | | Heavier than air. |
| Partitioning coefficient n-octanol/water (log Pow): | | No data available. |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. | |
| Viscosity, dynamic: | | No data available. |
| Viscosity, kinematic: | | No applicable information available. |
| Solubility in water: | | slightly soluble |
| Solubility (quantitative): | | No applicable information available. |
| Solubility (qualitative): | No applicable information available. | |
| Evaporation rate: | | No applicable information available. |
| 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:

Based on its structural properties the product is not classified as oxidizing.

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

Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

zinc, aluminium, oxidizing agents, strong alkalies, acids

Hazardous decomposition products

Decomposition products:

carbon oxides, nitrogen oxides, aldehydes

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

Oral

Type of value: ATE
Value: 1,660 mg/kg

Inhalation

Type of value: ATE
Value: 0.075700 mg/l
Determined for mist

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Causes burns.

Sensitization

Assessment of sensitization: May cause sensitization by skin contact.

Can sensitize the skin and/or respiratory tract of allergic persons.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Information on: phenol

Assessment of mutagenicity: Mutagenic properties can not be excluded on the basis of experimental data.

Carcinogenicity

Information on: Styrene

Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed as reasonably anticipated to be a human carcinogen.

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Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

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:
The product has not been tested.

Additional information

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

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 2735 |
| Hazard label: | 8 |
| Proper shipping name: | AMINES, LIQUID, CORROSIVE, N.O.S. (contains CYCLOHEX-1,2-YLENEDIAMINE) |

Sea transport

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IMDG

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Marine pollutant: NO
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains CYCLOHEX-1,2-YLENEDIAMINE)

Air transport

IATA/ICAO

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains CYCLOHEX-1,2-YLENEDIAMINE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

EPCRA 313:

| <u>CAS Number</u> | <u>Chemical name</u> |
|-------------------|----------------------|
| 108-95-2 | phenol |
| 100-42-5 | Styrene |

| <u>CERCLA RQ</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|--------------------|----------------------|
| 1000 LBS | 100-42-5; 108-95-2 | Styrene; phenol |

State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|-------------------------------------|
| NJ | 25620-58-0 | 1,6-Hexanediamine, C,C,C-trimethyl- |
| MA, NJ, PA | 111-40-0 | 2,2'-iminodi(ethylamine) |
| MA, NJ, PA | 89-72-5 | Phenol, 2-(1-methylpropyl)- |
| MA, NJ, PA | 108-95-2 | phenol |
| MA, NJ | 124-09-4 | hexamethylenediamine |
| MA, NJ, PA | 100-42-5 | Styrene |

NFPA Hazard codes:

Health : 3 Fire: 2 Reactivity: 0 Special:

HMIS III rating

Health: 3 Flammability: 2 Physical hazard: 0

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16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2014/05/13

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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