

MASTER SAFETY DATA SHEET

26/3/07

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

DOW EUROPE SA

CH-8810 HORGEN SWITZERLAND

MEDICAL EMERGENCY PHONE NO from ... 31 115 694 982 (THE NETHERLANDS)
(ASK FOR MEDICAL DEPARTMENT)

Product Name: **DOWEX* HCR S-S CATION EXCHANGE RESIN**

LV70: 39935

Issue Date: May 96

Ref: 0403B

2. COMPOSITION/INFORMATION ON INGREDIENTS

Sulfonated copolymer of styrene and divinylbenzene in the sodium form
(CAS# 069011-22-9)
Moisture

3. HAZARDS IDENTIFICATION

This product is not hazardous according to EEC criteria.

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation

No adverse effects anticipated by this route of exposure.

Skin Contact

No adverse effects anticipated by this route of exposure.

Eye Contact

Irrigate immediately with water for at least 5 minutes. Mechanical irritation only.

Ingestion

No adverse effects anticipated by this route of exposure.

MASTER SAFETY DATA SHEET

26/3/07

DOWEX* HCR S-S CATION EXCHANGE RESIN

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Carbon dioxide. Dry chemical. Foam.

Hazardous Combustion Products

Sulfur and carbon oxidation products.

Protection of Firefighters

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves).

Specific Fire or Explosion Hazards

Product is not combustible until moisture is removed, then resin starts to burn in flame at 230 deg.C.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Spills may cause very slippery surfaces. Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

Environmental Precautions

Prevent contamination of surface and groundwater.

Methods of Cleaning Up

Contain and sweep up the material. Collect in suitable and properly labelled containers. Recover if possible, or dispose of according to applicable regulations, see Section 13, Disposal Considerations.

7. HANDLING AND STORAGE

Handling

Static electricity can accumulate on dry beads. Leave room for expansion as dry resin swells upon wetting and/or changing ionic form. Equipment construction material should be compatible with feed, regenerant, ionic form and effluent of the ion exchange process. May cause very slippery surfaces.

Storage

Avoid dehydration; when rewetted the resin volume may increase and cause rupture of the packaging as well as of equipment. Store between 0 and 50 deg.C.

MASTER SAFETY DATA SHEET

26/3/07

DOWEX* HCR S-S CATION EXCHANGE RESIN

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

None established.

Engineering Controls

Good general ventilation should be sufficient.

Personal Protective Equipment

- Respiratory Protection

No respiratory protection should be needed.

- Protective Clothing

Use gloves, impervious to this material, when prolonged or frequently repeated contact could occur. For brief contact, no precautions other than clean body-covering clothing should be needed.

- Eye/Face Protection

Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid beads
Colour	: white to dark amber
Boiling point/range	: not applicable
Freezing point/range	: not applicable
Water solubility	: not applicable
Vapour pressure	: not applicable
Specific gravity	: 1.04-1.4
Flash point	: not applicable
Flammability	: not applicable
Auto-ignition temp.	: >500 deg.C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal handling and storage conditions.

Conditions to Avoid

Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions and can result in a slightly degraded resin or even in an explosive reaction.

Materials to Avoid

Strong oxidising agents.

MASTER SAFETY DATA SHEET

26/3/07

DOWEX* HCR S-S CATION EXCHANGE RESIN

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- Ingestion

Single dose oral toxicity is believed to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

- Skin

Skin absorption is unlikely due to physical properties.

- Inhalation

Vapours are unlikely due to physical properties.

Irritation

- Skin

Essentially non-irritating to skin.

- Eyes

May cause slight transient (temporary) eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action.

Other Information

No specific data available, however, repeated exposures are not anticipated to cause significant adverse effects.

12. ECOLOGICAL INFORMATION

Material is expected to degrade only slowly in the environment. May change pH of waters. Possible adverse effects on aquatic organisms or other wild species are expected to result primarily from physical/mechanical effects rather than toxicity.

13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with all local and national laws and regulations. Consider contaminants when disposing of used resins.

14. TRANSPORT INFORMATION

Product is not classified for any mode of transportation.

MASTER SAFETY DATA SHEET

26/3/07

DOWEX* HCR S-S CATION EXCHANGE RESIN

15. REGULATORY INFORMATION

EEC Classification and User Label Information

This product does not require classification according to the criteria of the Commission of the European Communities.

16. OTHER INFORMATION

No other information.

This Master Safety Data Sheet complies with basic EU regulatory requirements for Safety Data Sheets on the date of publication, and is intended for translation and adaptation into European National documents. This document should NOT be relied upon for compliance with the laws and regulations of individual countries without the appropriate local translations and adaptations. It is your responsibility to ensure that any Safety Data Sheet taken or adapted from this system for re-distribution or use complies with all the laws and regulations which apply to any such use or re-distribution.