

1. Product name :

Ion Exchange Resin P/N : IRS-5L-S

2. Composition/information on ingredients :

Styrene-divinylbenzene-copolymer in H+ & OH- form / Ion Exchange Resin

Common name	CAS Number	CONTENTS(WT%)
Duolite C20	37265-12-6	> 100%

3. Hazards identification :

Irritating to eyes.

4. First-aidmeasures :

Upon inhalation of aerosol/vapour/dust: Take the patient into the fresh air; if there is difficulty in breathing, medical advice is required.

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

Eye contact: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

Upon swallowing: If product is swallowed, make the patient drink water. Wash out mouth repeatedly. If the patient feels unwell, seek medical advice.

5. Fire-fightingmeasures :

Extinguishing media: CO₂, foam, dry power; in cases of larger fires, water spray should be used.

Firemen have to wear self-contained breathing apparatus.

6. Accidental releasemeasures :

Take up mechanically, fill into labeled, closable containers. Spilled product causes a risk of slipping.

7. Handling and storage :

Precautions should generally be taken against electrostatic charges according to the equipment used and the way the product is handled and packaged. Static charges lead to agglomeration of dry beads.

Prevent heating above +40°C and colling below 4°C.

Do not allow to dry out.

VCI storage class: II

Storage period 6 months.

8. Exposure controls/personal protection

Wear goggles.

Wear gloves.

Avoid contact with eyes and skin.

Keep away from food and drink stuffs.

Do not eat, drink or smoke at work.

Wash hands before breaks and at end of work and use skin-protecting ointment.

9. Physical and chemical properties :

Form:	beads
Colour:	brown,translucent
Odour:	odourless
Density:	approx.1.13g/cm ³
Bulk density:	700 to 800 kg/m ³
Solubility in water:	not applicable
PH value:	neutral in aqueous suspension

10. Stability and reactivity :

Thermal decomposition: No thermal decomposition when stored and handled correctly.

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

Formation of carbon monoxide, carbon dioxide, sulphur dioxide and other toxic gases in the event of fire or during thermal decomposition.

Hazardous reactions: Contact with strong oxidizing agents may cause hazardous reactions.

No hazardous reaction when used and directed.

11. Toxicological information :

Acute oral toxicity (LD50): above 2000 mg/kg tested in rats.

Skin irritation: non-irritant tested on rabbits.

Eye irritation: irritant tested on rabbit eyes

12. Ecological information :

The product is insoluble in water. Therefore, ecological tests have not been conducted.

Do not allow to escape into waters, wastewater or soil.

Water pollution class (WGK): 1 – slightly hazardous to water

WGK = Classification in accordance with the Japan Water Resources Act

13. Disposal considerations :

If utilization or recycling of the product is not possible, it should be disposed of according to the local regulations and laws, e. g. by incineration in a suitable plant.

Soiled, empty containers are to be treated in the same way as the contents.

14. Transport information :

GGVSee/IMDG Code: -- UN No.: -- MFAG: -- EMS: --

PG: -- MPO: --

GGVE/GGVS: Class -- No. -- RID/ADR: Class -- No. --

ADNR: Class -- No. -- Cat -- ICAO/IATA-DGR: not restr.

Declaration for land shipment: --

Declaration for sea shipment: --

Declaration for shipment by air: --

Other information:

Not dangerous cargo. Irritating to the eyes. Keep separated from foodstuffs.

15. Regulatory information :

Labeling in accordance with the Japan directives:

Symbol: Xi, hazard description: irritant

Styrene-divinylbenzene-copolymer in H+ & OH- form

R 36: Irritating to eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information:

The data given here is based on current knowledge and experience.

The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirement.

The data does not signify any warranty with regard to the products' properties.