

Safety Data Sheet
ECH273 INTERGARD 740 RED
Version No 1 Revision Date 08/19/13
1. Product and company identification
1.1. Product identifier INTERGARD 740 RED

Product Code ECH273

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

Intended use Refer Technical Data Sheet.

Application Method Refer Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Manufacturer

 International Paint (Korea) Limited
 (8-6B/L Chilseo Industrial Complex),
 626-6 Gyenae-Ri,
 Chilseo-Myeon, Haman-Gun,
 Gyeongsangnam-Do
 Korea

Telephone No.

055-632-6286(R&D), 055 586 2310(Fact

Fax No.

055 632-6287(R&D), 055 587 6276(Fact

1.4. Emergency telephone number

055-586-2310(Factory)

For Poisons Advice telephone

 055-586-2310(Factory) For Advice to Doctors &
 Hospitals only

2. Hazard identification of the product
2.1. Classification of the substance or mixture
2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

[Prevention]:
[Response]:
[Storage]:
[Disposal]:
2.3. Other hazards
3. Composition/information on ingredients

This product contains the following hazardous substances.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|------------------------------------|----------|---|--------|
| Xylene CAS Number: 0001330-20-7 | 20-30 | Flam. Liq. 3;H226 Acute Tox. 4;H312 Acute Tox. 4;H332 Skin Irrit. 2;H315 Eye Dam. 2A;H319 | [1][2] |

| | | | |
|--|-------|--|--------|
| | | STOT SE 3;H336 STOT RE 1;H372 | |
| Epoxy Resin CAS Number: 0025068-38-6 | 10-20 | Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411 | [1] |
| C.I. pigment red 104 CAS Number: 0012656-85-8 | 10-20 | Carc. 1B;H350 Repr. 1A;H360Df STOT RE 2;H373 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 | [1] |
| Talc CAS Number: 0014807-96-6 | 10-20 | | [1][2] |
| Cyclohexanol, 4,4(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane CAS Number: 0030583-72-3 | 5-10 | Skin Sens. 1;H317 Aquatic Chronic 2;H411 | [1] |
| Barium Sulphate CAS Number: 0007727-43-7 | 2.5-5 | | [1][2] |
| Ethyl Benzene CAS Number: 0000100-41-4 | 2.5-5 | Flam. Liq. 2;H225 Acute Tox. 4;H332 | [1][2] |
| Titanium dioxide CAS Number: 0013463-67-7 | 2.5-5 | | [1][2] |
| 1-METHOXYPROPAN-2-OL CAS Number: 0000107-98-2 | 2.5-5 | Flam. Liq. 3;H226 STOT SE 3;H336 | [1][2] |
| Solvent Naphtha (Petroleum), light aromatic CAS Number: 0064742-95-6 | 1-2.5 | Asp. Tox. 1;H304 | [1] |
| polyamide dispersion CAS Number: 0055349-01-4 | <1 | Skin Sens. 1;H317 Aquatic Chronic 4;H413 | [1] |
| Formaldehyde CAS Number: 0000050-00-0 | <1 | Acute Tox. 3;H301 Acute Tox. 3;H311 Acute Tox. 2;H330 Skin Corr. 1;H314 Skin Sens. 1;H317 Carc. 1A;H350 Aquatic Acute 1;H400 | [1][2] |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the Hazard (H) phrases are shown in Section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence do not require reporting in this section.

4. First aid measures

4.1. Description of first aid measures

General

Inhalation

Skin Contact

Eye Contact

Ingestion

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

7. Handling and storage

7.1. Precautions for safe handling

Handling

In Storage

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

8. Exposure controls and personal protection

8.1. Control parameters

Exposure standards are those provided by the ACGIH (American Conference of Government Industrial Hygienists).

| Material | Short term (15 min. ave) | | Long term (8hr time weighted average) | | Comments |
|----------------------|--------------------------|-------------------|---------------------------------------|-------|----------|
| | ppm | mg/m ³ | ppm | mg/M3 | |
| 1-METHOXYPROPAN-2-OL | 150 | 540 | 100 | 360 | |
| Barium Sulphate | | | 2 | 10 | |
| Ethyl Benzene | 125 | 545 | 100 | 435 | |
| Formaldehyde | 2 | 3 | 1 | 1.5 | |
| Talc | | | | 2 | |
| Titanium dioxide | | | | 10 | |
| Xylene | 150 | 655 | 100 | 434 | |

Key to notification

(P) Peak exposure limit

(R) Suppliers Recommended Limit

(Sk) There is a risk of absorption through unbroken skin

(Sen) Sensitiser

(Cat1) Category 1 - established human carcinogen

(Cat2) Category 2 - probable human carcinogen

(Cat3) Category 3 - substances suspected of having carcinogenic potential

DNEL/PNEC values

8.2. Exposure controls

Eye Protection

Skin Protection

Other

Respiratory Protection

Thermal hazards

9. Physical and chemical properties

Colour

Odour

Odour threshold

pH

Melting point / freezing point (°C)

Initial boiling point and boiling range (°C)

Flash Point (C)

Evaporation rate (Ether = 1)

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Lower Explosive Limit: 1.1 (Xylene)

Upper Explosive Limit: 6.6 (Xylene)

Vapour pressure (Pa)

Vapour Density

Specific Gravity

0.00

Solubility in Water

Partition coefficient n-octanol/water (Log Kow)

Autoignition temperature ()

Decomposition temperature

Viscosity (cSt)

9.2. Other information

No further information

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

11. Toxicological information

Acute toxicity

Oral LD50,

Skin LD50,

Inhalation

Inhalation

| Ingredient | mg/kg | mg/kg | Vapour LD50, mg/L/4hr | Dust/Mist LD50, mg/L/4hr |
|---|-----------------|-------------------|-----------------------|--------------------------|
| 1-METHOXYPROPAN-2-OL - (107-98-2) | 5,000.00, Rat | 13,000.00, Rabbit | Not Available | Not Available |
| Barium Sulphate - (7727-43-7) | 3,000.00, Mouse | Not Available | Not Available | Not Available |
| C.I. pigment red 104 - (12656-85-8) | 5,000.00, Rat | Not Available | Not Available | Not Available |
| Cyclohexanol, 4,4(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane - (30583-72-3) | Not Available | Not Available | Not Available | Not Available |
| Epoxy Resin - (25068-38-6) | 2,000.00, Rat | 2,000.00, Rabbit | Not Available | Not Available |
| Ethyl Benzene - (100-41-4) | 3,500.00, Rat | 15,433.00, Rabbit | 17.20, Rat | Not Available |
| Formaldehyde - (50-00-0) | 800.00, Rat | 270.00, Rabbit | 0.578, Rat | Not Available |
| polyamide dispersion - (55349-01-4) | Not Available | Not Available | Not Available | Not Available |
| Solvent Naphtha (Petroleum), light aromatic - (64742-95-6) | 6,800.00, Rat | 3,400.00, Rabbit | Not Available | Not Available |
| Talc - (14807-96-6) | Not Available | Not Available | Not Available | Not Available |
| Titanium dioxide - (13463-67-7) | 10,000.00, Rat | 10,000.00, Rabbit | Not Available | 6.82, Rat |
| Xylene - (1330-20-7) | 4,299.00, Rat | 1,548.00, Rabbit | Not Available | 20.00, Rat |

| Item | Category | Hazard |
|---|----------------|----------------|
| Acute Toxicity (mouth) | Not Classified | Not Applicable |
| Acute Toxicity (skin) | Not Classified | Not Applicable |
| Acute Toxicity (inhalation) | Not Classified | Not Applicable |
| Skin corrosion/irritation | Not Classified | Not Applicable |
| Eye damage/irritation | Not Classified | Not Applicable |
| Sensitization (respiratory) | Not Classified | Not Applicable |
| Sensitization (skin) | Not Classified | Not Applicable |
| Germ toxicity | Not Classified | Not Applicable |
| Carcinogenicity | Not Classified | Not Applicable |
| Reproductive Toxicity | Not Classified | Not Applicable |
| Specific target organ systemic toxicity (single exposure) | Not Classified | Not Applicable |
| Specific target organ systemic Toxicity (repeated exposure) | Not Classified | Not Applicable |
| Aspiration hazard | Not Classified | Not Applicable |

12. Ecological information

12.1. Toxicity

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|-------------------------------------|---------------------------|----------------------------|--------------------------------|
| Xylene - (1330-20-7) | 3.30, Oncorhynchus mykiss | 8.50, Palaemonetes pugio | 100.00 (72 hr), Chlorococcales |
| Epoxy Resin - (25068-38-6) | 3.10, Pimephales promelas | 1.40, Daphnia magna | Not Available |
| C.I. pigment red 104 - (12656-85-8) | 2,500.00, Leuciscus idus | Not Available | Not Available |
| Talc - (14807-96-6) | Not Available | Not Available | Not Available |

| | | | |
|--|---------------------------------|-----------------------|---|
| Cyclohexanol, 4,4(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane - (30583-72-3) | Not Available | Not Available | Not Available |
| Barium Sulphate - (7727-43-7) | 59,000.00, Poecilia sphenops | 32.00, Daphnia magna | Not Available |
| Ethyl Benzene - (100-41-4) | 4.20, Oncorhynchus mykiss | 2.93, Daphnia magna | 3.60 (96 hr), Pseudokirchneriella subcapitata |
| Titanium dioxide - (13463-67-7) | 1,000.00, Fundulus heteroclitus | 5.50, Daphnia magna | 5.83 (72 hr), Pseudokirchneriella subcapitata |
| 1-METHOXYPROPAN-2-OL - (107-98-2) | 1,000.00, Oncorhynchus mykiss | 500.00, Daphnia magna | 1,000.00 (96 hr), Selenastrum capricornutum |
| Solvent Naphtha (Petroleum), light aromatic - (64742-95-6) | 9.22, Oncorhynchus mykiss | 6.14, Daphnia magna | 19.00 (72 hr), Selenastrum capricornutum |
| polyamide dispersion - (55349-01-4) | Not Available | Not Available | Not Available |
| Formaldehyde - (50-00-0) | 1.41, Oncorhynchus mykiss | 5.80, Daphnia pulex | 0.788 (96 hr), Ulva pertusa |

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. Disposal considerations

13.1. Waste treatment methods

14. Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Road and Rail Transport

IMDG **Class/Div** **Sub Class**
reference :

Ems

ICAO/IATA **Class** **Sub Class**

14.4. Packing group

14.5. Environmental hazards

Road and Rail Environmentally Hazardous:
Transport

IMDG Marine Pollutant:
reference :

14.6. Special precautions for user

No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

The product and all its components complies with these local regulations:

NICNAS - Australia
EPA - New Zealand

| | |
|-----------------------------|---|
| Korean OHS Act | See Section 2 |
| Toxic Substances Act | Not Toxic |
| Dangerous Goods Act | Class 4 Flammable Liquid, 1st Petroleum Division, Hazard Class II |
| Waste Control Act | |

16. Other information

The information on this SDS is based upon the present state of our knowledge and on current law. The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The information in this Safety Data Sheet is required according to legislation.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness and dizziness.

H350 May cause cancer.

H360Df May damage the unborn child. Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**This SDS is valid for 5 years from the revised date on page 1.
The revision date is in American format (e.g. MM/DD/YY).**

End of document



All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel however makes no warranty as to the accuracy of and/or sufficiency of such information.