

Safety Data Sheet
ECS419/B INTERGARD 740 ARCTIC BLUE PART A
Version No 1 Revision Date 08/19/13
1. Product and company identification
1.1. Product identifier INTERGARD 740 ARCTIC BLUE PART A

Product Code ECS419/B

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

Intended use Refer Technical Data Sheet.

For professional use only.

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	[1][2]

		Skin Irrit. 2;H315 Eye Dam. 2A;H319 STOT SE 3;H336 STOT RE 1;H372	
Titanium dioxide CAS Number: 0013463-67-7	20-30		[1][2]
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]
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]
Ethyl Benzene CAS Number: 0000100-41-4	2.5-5	Flam. Liq. 2;H225 Acute Tox. 4;H332	[1][2]
1-METHOXYPROPAN-2-OL CAS Number: 0000107-98-2	2.5-5	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Barium Sulphate CAS Number: 0007727-43-7	1-2.5		[1][2]
Solvent Naphtha (Petroleum), light aromatic CAS Number: 0064742-95-6	1-2.5	Asp. Tox. 1;H304	[1]
Silica (quartz) CAS Number: 0014808-60-7	1-2.5	Acute Tox. 4;H332 STOT RE 2;H373	[1][2]
polyamide dispersion CAS Number: 0055349-01-4	<1	Skin Sens. 1;H317 Aquatic Chronic 4;H413	[1]
Lead chromate C.I. Yellow 34 CAS Number: 0001344-37-2	<1	Carc. 1B;H350 Repr. 1A;H360Df STOT RE 2;H373 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1]

[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	
Silica (quartz)				0.1	
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

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LD50, mg/L/4hr	Inhalation 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
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
Lead chromate C.I. Yellow 34 - (1344-37-2)	5,000.00, Rat	Not Available	Not Available	Not Available
polyamide dispersion - (55349-01-4)	Not Available	Not Available	Not Available	Not Available
Silica (quartz) - (14808-60-7)	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
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Epoxy Resin - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not Available
Talc - (14807-96-6)	Not Available	Not Available	Not Available
Cyclohexanol, 4,4(1-methylethylidene)bis-, polymer	Not Available	Not Available	Not Available

with (chloromethyl)oxirane - (30583-72-3)			
Ethyl Benzene - (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 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
Barium Sulphate - (7727-43-7)	59,000.00, Poecilia sphenops	32.00, Daphnia magna	Not Available
Solvent Naphtha (Petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
Silica (quartz) - (14808-60-7)	Not Available	Not Available	Not Available
polyamide dispersion - (55349-01-4)	Not Available	Not Available	Not Available
Lead chromate C.I. Yellow 34 - (1344-37-2)	10,000.00, Leuciscus idus	Not Available	Not Available

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, 2nd Petroleum Division, hazard class III
Waste Control Act	Hazardous Waste

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.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- 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.