Material Safety Data Sheet (MSDS)
Fortalac D680 LOW VOC QAD Finish

Commercial product name: **Fortalac D680 LOW VOC QAD Finish**
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Identification of the substance or preparation: Fortalac D680 LOW VOC QAD Finish. Version: 1
Manufacturer/distributor: International Coatings Limited
Street: Ballycorus
Town: Kilternan
County: Dublin 18
Country: Ireland
Telephone: 01-2822877/2822141 Telefax: 01-2822653
Emergency: 01-2893290

2. HAZARDS IDENTIFICATION

2.1 Hazardous components:
Note: Unlikely to cause harmful effects under normal conditions, handling and use. Flammable liquid. In the environment, the solvent in this product is likely to biodegrade slowly. Repeated exposure to the solvent contained in the paint may cause skin dryness or cracking.

Chemical name of the substance	Concentration	Warning symbol, R phrases and other information
Xylene	40-70%	Xn, N ; R10-20/21-51/53-66 50 ppm (TLV-TWA)

2.2 Further information: TLV = Threshold Limit Values /ACGIH 2004

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Flammable: **Harmful**: may cause lung damage if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Information on hazard labelling in section 15.

4. FIRST AID MEASURES

4.1 Additional advice
In all cases of doubt, or when symptoms persist, seek medical attention
4.2 Inhalation
Inhalation of vapour may cause irritation: Remove to fresh air, keep patient warm and at rest.
4.3 Ingestion
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting
4.4 Skin contact
In case of irritation on prolonged or repeated contact, remove any contaminated clothing. Wash skin thoroughly water. If a large area of the skin is damaged or if the irritation persists, seek medical attention.
4.5 Eye contact
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice

5. FIRE – FIGHTING MEASURES

5.1 Suitable extinguishing media: Apply copious amounts of foam. Dry powder is also suitable.
5.2 Extinguishing media which must not be used for safety reasons: Do not spray water directly into storage containers due to the danger of boil over.
5.3 Special exposure hazards in a fire:
Fire will produce toxic gasses of an unknown nature. Avoid breathing the smoke. Wear chemical protection suits.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear appropriate PPE, gloves, boots and goggles which are solvent resistant**.** Avoid breathing vapours, use a respirator. Exclude sources of ignition.
6.2 Environmental precautions: Do not allow to enter drains or water courses. Inform appropriate authority of any releases to water courses. Product is toxic to fish.
6.3 Spill clean up methods
Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

7. HANDLING AND STORAGE

7.1 Handling.
Vapours are heavier than air and may form explosive mixtures with air. Good ventilation must be provided. Keep away from sources of ignition. Take precautionary measures against static discharges.
7.2 Storage.
Keep product in original containers tightly closed. Store in a cool, dry, well ventilated place away from sources of ignition, heat the direct sunlight. Do not leave drums open. No smoking.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Occupational exposure controls.
Provide adequate ventilation. Comply with the health and safety at work laws.
8.2 Respiratory protection
Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During spray-application use respirators with gas, vapour and dust filter AP. During continuous and long-term work the use of air-fed or motor-driven respirators is recommended.
8.3 Hand protection
Always wear protective gloves (e.g. Nitrile rubber or neoprene). Barrier creams may also help to protect the exposed areas of the skin.
8.4 Eye protection.
Safety eyewear must be used during application.
8.5 Skin and body protection
Protective clothing must be used during application. Use barrier cream on hands.
8.6 Hygiene Measures
Always wash thoroughly after handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Viscous liquid- opaque
9.2 Colour: Various
9.3 Odour: Odour is aromatic.
9.4 Boiling Point (°C): 130-170°**C** **Relative Density**: .9-1.3
9.5 Flash Point (°C): 24°**C**
9.6 Lower Explosion limit: 0.6% - **Upper explosion limit:** 7.0 vol-%
9.7 Vapour pressure: .25kPa (20°**C)**
9.8 Water solubility: insoluble **Viscosity: Flow time 60-120sec/Ford Cup No.4**
9.9 Further information: Evaporation rate (Di Ethyl Ether=10): 500.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Solvent vapours may form explosive mixtures with air.
10.2 Materials to avoid: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions
10.3 Hazardous decomposition products: Fire will produce dense black smoke. Exposure to decomposition products may cause health hazard.

11. TOXICOLOGICAL INFORMATION

11.1 Inhalation:
Solvent vapours and spray mist harmful if inhaled. Long term exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, nausea, vision disturbances, and narcosis.
Other effects: Harmful if taken internally. Ingestion may cause gastrointestinal pain, nausea, and central nervous system depression.
11.2 Skin contact
Repeated or prolonged contact with the preparation may cause removal of the natural fat from the skin resulting in contacting dermatitis. Splashes in the eyes may cause irritation.
11.3 Sensitisation
May produce an allergic reaction

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects:
Expected to be toxic to aquatic organisms.
12.2 Persistence and degradability:
Expected to biodegrade slowly.
12.3 Other adverse effects;
There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

13.1 Product residues
Gather residues into waste containers. Dispose of via an authorised/licensed waste disposal contractor to an approved waste disposal site according to the rules given by local and national authorities. EWC-code for liquid waste is e.g. 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).
13.2 Packaging waste
Empty cans should be completely purged and be recycled or disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

Proper technical name: Paint
UN no. road: 1307/3295
Primary Hazard: Flammable liquid
Class 3,
Packing Group: 111
Emergency Action Code:

Land transport
ADR/RID no: 3
Further information:
Drums/vessels <450litres
Not subject to ADR because of high viscosity.

Sea transport
IMDG: 3
Further information:
Drums/Vessels <30 litres: transport in Accordance with paragraph 2.3.2.5 of IMDG code

15. REGULATORY INFORMATION

15.1 Information on the warning label
Letter code of the warning symbol and indications of danger for the preparation:
Xn Harmful N Dangerous for the Environment.
15.2 Names of the ingredients given on the warning label: Xylene
15.3 Risk phrases
R10 – flammable
R20/21 – harmful by inhalation and in contact with skin
R21 – harmful in contact with skin
R22 – harmful if swallowed
R33 – danger of cumulative effects
R37 – irritating to respiratory system
R38 – irritating to skin
R40 – limited evidence of a carcinogenic effect
R41- risk of serious damage to eyes
R43 – may cause sensitisation by skin contact
R50/58 – very toxic to aqua organism, may cause long-term adverse effects in the aquatic environment.
R51/53 – toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.
R52-53 – harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.
R61 – may cause harm to the unborn child

R62 – possible risk of impaired fertility
R65 – harmful: may cause lung damage if swallowed
R66 – repeated exposure may cause skin dryness or cracking
R67 – vapours may cause drowsiness and dizziness
Special risk indications for man and environment: Toxic

15.4 Safety phrases

S2 - keep out of reach of children
S23 - do not breathe vapour/spray
S24 - avoid contact with skin

S29 – do not empty into drains
S36/37 – wear suitable protective clothing and gloves
S38 – in case of insufficient ventilation, wear suitable respiratory equipment
S43 – in case of fire, use foam, dry powder, AFFF, CO2- never use water. Use appropriate containment to avoid environmental contamination. If swallowed, do not induce vomiting: seek medical advice immediately and read this safety sheet and container label.

15.3 Special regulation on certain preparations: n.a.

E.C. No.: Use of this material may be governed by the following regulations:

Users are advised to consult these regulations for further information.

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. OTHER INFORMATION

Recommended uses and restriction: This product is designed as an anti-corrosive metal primer mainly for spray application.

The data contained in this Safety Data Sheet has been supplied as required by the **Chemicals (Hazard Identification and Packaging) Regulations 1993**, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person(s) in your company or otherwise, who are capable of acting on the information.

17. Other Information

n.a = not applicable n.s. = not subject to

The above information describes exclusively the safety requirements for the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. The delivery specification is to be found in the respective product leaflet.

The information contained in this sheet does not constitute a hazard assessment, and should not be used in place of the user's own assessment of workplace of workplace risks as required by other health and safety legislation. Our data and suggestions are based on information which we believe to be reliable. Users should verify by tests that our product, as well as suggested methods, is suitable with the product/materials being used in their application. Since specific use, materials and handling are not controlled by us, our warranty is limited to the replacement of any defective product supplied by us. Further technical support is available from our trained sales staff.