

# MATERIAL SAFETY DATA SHEET

The Robex Group  
Knowl Piece  
Wilbury Way  
HITCHIN  
Hertfordshire  
United Kingdom  
SG4 0TY

## SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

### COLOUR GRIP AGGREGATE

Tel: +44 (0) 1462 422 260  
Fax: +44 (0) 1462 422 262  
Emergency Tel: (9.00am—5.00pm)  
+ 44 (0) 1462 422 260

## SECTION 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Glazed, pigmented calcined flint.

## SECTION 3. HAZARDS IDENTIFICATION

Not classified as hazardous.

## SECTION 4. FIRST AID MEASURES

Inhalation: Product may irritate, remove to fresh air.  
Skin: Fine products may dry out the skin, rinse with water.  
Eyes: Product may be slightly abrasive, rinse with plenty of water, avoid rubbing eyes. If still irritating seek medical advice.  
Ingestion: No adverse effects known.

## SECTION 5. FIRE FIGHTING MEASURES

This material is not combustible.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: No special requirements necessary for disposal.  
Spillage: Water or vacuum cleaning suggested to keep dust generation to a minimum.

## SECTION 7. HANDLING AND STORAGE

Store under ambient, dry conditions indoors. The material has an indefinite shelf life.  
In common with all fine dusts, formation of dust clouds should be avoided.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: It is recommended that suitable face masks are utilised.  
The long term occupational exposure limits for total dust is 10mg/m<sup>3</sup> and for respirable dust 5mg/m<sup>3</sup> air.  
Personal protection: In common with good hygiene practice it is recommended that proprietary gloves, goggles, face masks and overalls are utilised.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder/Granules.  
Colour: Various.  
Smell: Odourless.  
Melting point/melting range: >1600°C.  
Density at 20°C: About 2.5 g/cm<sup>3</sup>.  
Solubility in/miscibility with water: Insoluble.

## SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.  
Reactivity: None known.  
Hazardous products of decomposition: None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

Skin & eye contact: No irritant effect.  
Sensitisation: No sensitisation effect known.

## SECTION 12. ECOLOGICAL INFORMATION

Not hazardous to water.

## SECTION 13. DISPOSAL CONSIDERATIONS

Small quantities can be disposed of with domestic waste.  
Disposal must be made according to official regulations.  
Packaging can be handled like domestic waste.

## SECTION 14. TRANSPORT INFORMATION

Not regulated by national or international transport regulations.

## SECTION 15. REGULATORY INFORMATION

Not classified as a dangerous substance under current legislation.

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**SECTION 16. OTHER INFORMATION**

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of workplace risks are required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties.

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**Date of Preparation:** 09.09.2003



# MATERIAL SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

### COLOUR GRIP BASE

Tel: +44 (0) 1462 422 260  
Fax: +44 (0) 1462 422 262  
Emergency Tel: (9.00am—5.00pm)  
+ 44 (0) 1462 422 260

The Robex Group  
Knowl Piece  
Wilbury Way  
HITCHIN  
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United Kingdom  
SG4 0TY

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation:	Formulated Epoxy Resin.			
Ingredients	CAS No.	Hazard Symbols	R-Phrases	Concentration
Bisphenol (Reaction Product) A- (epichlorhydrin) Epoxy Resin (number ave. mol. wt. <700) C12-C14 aliphatic Glycidyl ether	25068-38-6   68609-97-2	   Xi	   R36/38-R43   R36/38-R43	   50-57%   5-15%

## SECTION 3. HAZARDS IDENTIFICATION

Irritating to eyes and skin.  
May cause sensitisation by skin contact.

## SECTION 4. FIRST AID MEASURES

Immediate treatment  
Eye contact: Immediately flush eyes with running water for at least 15 minutes without interruption. Then visit a doctor.  
Skin contact: Remove contaminated clothing immediately. Rinse affected skin with copious amounts of water, using a mild cleansing agent. If irritation persists then seek medical attention.  
Inhalation: Remove injured person to fresh air. Seek medical attention.  
Ingestion: Do not induce vomiting. Drink water in small sips (diluting effect). Seek medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

Special hazards: Harmful gases and vapours (as well as Carbon Dioxide and Carbon Monoxide) may be formed.  
Protective equipment: Wear self contained breathing apparatus.  
Extinguishing media: Water, dry powder (BC powder) foam, Carbon Dioxide.  
Extinguishing agents prohibited: Water jet.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal protection: Avoid skin and eye contact. Provide for sufficient room ventilation.  
Environmental precautions: Prevent from entering the sewer system, surface water or soil.  
Methods for cleaning: Larger amounts: Dike spilled product with a liquid absorbing material and pump off.  
Smaller amounts: Soak up with liquid absorbing material and dispose of as instructed. (See Section 13).

## SECTION 7. HANDLING AND STORAGE

Safe handling advice: Use only in well ventilated areas.  
Keep container tightly closed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Not normally required. Combination filter A/P2 when spraying.  
Eye protection: Safety goggles.  
Hand protection: Protective gloves, gauntlet type gloves of PVC or rubber.  
Skin protection: Plastic or rubber apron. Suitable arm protection if body contact is possible.  
Hygienic measures: Apply skin protection cream before handling. Immediately take off all contaminated clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid, paste or grout.  
Colour: Colourless or coloured.  
Odour: Weak odour.  
Safety relevant data.  
Boiling temperature: **NB Data applicable to Resin.**  
> 200°C at: 1013 hPa  
Thermal decomposition: > 200°C  
Flash point: ca. 130°C. Method: DIN S1758  
Vapour pressure: <0.1 hPa, at: 20°C.  
Density: 1.13 g/cm<sup>3</sup>, at: 20°C. Method: DIN 515757.  
Solubility: Insoluble in/with water, at 20°C.  
Viscosity: 800 - 1100 mPa \* s, at 25°C.

## SECTION 10. STABILITY AND REACTIVITY

Materials to avoid: May react under considerable heat build up with amines and mercaptanes. Also avoid acids.  
Hazardous decomposition products: None.

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity (lethal doses):

DD50 oral, rat:  
Dose : 10ml/kg

General information about acute or other toxicities: Skin/Eye irritation.  
In animal testing low molecular weight epoxy resins and glycidil ethers have been shown to cause irritation.  
Sensitisation.  
In animal testing low molecular weight epoxy resins and glycidil ethers have been shown to cause sensitisation.

Experience with Human Beings: Low molecular weight epoxy resins have been shown to cause irritation on skin and eyes.  
Skin sensitisation was also observed.

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**SECTION 12. ECOLOGICAL INFORMATION**

Additional information about ecology:  
No results from ecotoxicological test are available.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

Packaging: Can be used again after cleaning. Dispose of washing solution in same way as product.  
Product: Burn in compliance with operative regulations in a hazardous waste incinerator.

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**SECTION 14. TRANSPORT INFORMATION**

Not a dangerous good within the meaning of national and international transport regulations.

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**SECTION 15. REGULATORY INFORMATION**

Classification according to EEC Directives.  
Classification: Labelling according to EC - Directive 88/379/EEC, and amendments and adaptations.  
Hazard Labels: Xi Irritant.  
R-Phrases: R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
S-Phrases: S26 In case of contact with eyes, wash immediately with plenty of soap and water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37/39 Wear suitable gloves and eye/face protection.  
Hazardous ingredient: Reaction product: bisphenol A- (epichlorhydrin); Epoxy resin (number average molecular weight <= 700) C12-14 alipatic glycidil ether.

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**Date of Preparation:** 01.02.2003



# MATERIAL SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

### COLOUR GRIP REACTOR

The Robex Group  
Knowl Piece  
Wilbury Way  
HITCHIN  
Hertfordshire  
United Kingdom  
SG4 0TY

Tel: +44 (0) 1462 422 260  
Fax: +44 (0) 1462 422 262  
Emergency Tel: (9.00am—5.00pm)  
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SECTION 2.	COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical characterisation:	Modified Aliphatic amine.			
Ingredients	CAS No.	Hazard Symbols	R-Phrases	Concentration
Benzyl Alcohol	100-51-6		R20/22	<50%
Isophoronediamine	2855-13-2		R34/21/22/43	< 50%

**SECTION 3. HAZARDS IDENTIFICATION**  
Caution: Contains Polymeric Polyamine and Benzyl Alcohol.

**SECTION 4. FIRST AID MEASURES**  
Immediate Treatment:  
Eye contact: Rinse immediately with plenty of water, continuing for 15 minutes and seek medical attention.  
Skin contact: Wash immediately with plenty of water and soap. Remove contaminated clothing. In case of persistent irritation or if rash develops, seek medical attention.  
Inhalation: Remove the affected person to fresh air, and allow to rest. In case of breathing difficulty or distress, seek medical attention.  
Ingestion: Immediately rinse mouth with water and seek medical attention if this is not immediately available, drink one or two pints of water.

**SECTION 5. FIRE FIGHTING MEASURES**  
Special hazards: Cool containers in the vicinity of the blaze with waterspray. May generate toxic, irritating or flammable products. Sudden reaction and fire may result if mixed with an oxidising agent.  
Protective equipment: Wear self contained breathing apparatus, butyl boots and a body suit.  
Extinguishing agents: Use foam, dry chemical,, CO2 or waterspray. Retain liquids used for later disposal. **Class B Fire.**

**SECTION 6. ACCIDENTAL RELEASE MEASURES**  
Personal protection: Use PPE described above.  
Environmental precautions: Wash the area clean with water and detergents.  
Methods for cleaning: Absorb with earth, sand or other absorbent material, sweep up and shovel into containers for disposal.  
Additional information: Extinguish naked lights in the vicinity.

**SECTION 7. HANDLING AND STORAGE**  
Safe handling advice: Wear goggles or a face shield, impervious gloves and protective clothing.  
Use in a well ventilated area.  
Storage: Store in a cool well ventilated place away from foodstuffs and epoxy resins.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**  
Respiratory protection: In poorly ventilated areas use a cartridge mask approved for organic vapours.  
Eye protection: Goggles/face shield.  
Hand protection: Impervious gloves.  
Skin protection: Slicker suit. Rubber boots.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**  
Physical state: Liquid.  
Colour: Clear to yellow.  
Odour: Irritating.  
Safety Relevant Data.  
Boiling temperature: 224°C.  
Melting point: < -18°C.  
Flash point: 166°C. (closed cup).  
Solubility: Low in water. Miscible with hydrocarbon solvents.  
Viscosity: 100 (cps) @ 25°C.  
Relative density: 1.00 @ 25°C.

**SECTION 10. STABILITY AND REACTIVITY**  
Materials to avoid: Oxidising agents (i.e. perchlorates, nitrates etc.). Cleaning solutions such as chromerge and aqua regia.  
Hazardous decomposition products: CO in a fire, CO2 in a fire. Ammonia when heated, Nitrogen Oxides in a fire.  
Nitrogen Oxide can react with water vapours to form corrosive nitric acid.  
Combustion of product under oxygen starved conditions can be expected to produce numerous toxic products i.e. nitrides/amines.

**SECTION 11. TOXICOLOGICAL INFORMATION**  
General information about acute or other toxicity's: Oral LD50 (rat) : 1373 mg/kg  
Dermal LD50 (rabbit) : >2000 mg/kg

**SECTION 12. ECOLOGICAL INFORMATION**  
Additional information about ecology: No results from ecotoxicological test are available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local and national regulations. For example, in the UK regulations made under the Control of Pollution Act 1974, and the Environmental Protection Act 1990. Wear protective clothing during disposal operations. If disposal is by a waste container, make sure that he has sufficient information and that waste containers are properly labelled.

**SECTION 14. TRANSPORT INFORMATION**

UN No.: 2735  
ADR/RID shipping data: Isophoronediamine Mixture 8.53 (c)  
IMO shipping data: Alkylamines, liquid, NOS (Isophoronediamine); 8; UN2735; IMDG Pg.; 8103, pa, iii  
ICAO/IATA shipping data: As 'IMO'.

**SECTION 15. REGULATORY INFORMATION**

Classification according to EEC Directives.

Classification: Corrosive, causes burns.

Hazard labels:

R-Phrases: R34/20/21/22/43

S-Phrases: S26/36/37/39

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