



R F Bright Enterprises Ltd

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SECTION 1

1.1 Product identifier

Substance name
EC No.

Substance name
EC No.

Substance name
EC No.

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

1.3 Details of the supplier of the safety data sheet

1.4 Emergency telephone number

SECTION 2

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

2.1.2 Additional information

All recommendations are given in good faith but without warranty

Product Safety Data Sheet

CHEMSET[®] ES 8119 Eco Enamelling Resin

Issue 1

Revision date:

23 May 2016

Supersedes issue dated:

N/A

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

CHEMSET[®] ES 8119 Eco Enamelling Resin

Epoxy resin (number average molecular weight \leq 700)
500-033-5

Reaction products of glycerine with epichlorhydrin and caustic soda
292-011-4

Oils, vegetable
273-313-5

Enamelling, doming, stone-setting, bonding and other similar applications.

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HAZARDS IDENTIFICATION

Skin Irritant 2	H315	Causes skin irritation
Skin Sensitiser 1	H317	May cause an allergic skin reaction
Eye Irritant 2A	H319	Causes serious eye irritation
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects

No further relevant information available.



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2.2 Label elements:

Hazard pictograms

Signal word

Hazard statements

Precautionary statements

Supplemental hazard information (EU)

2.3 Other hazards

SECTION 3

3.2 Mixtures

SECTION 4

4.1 Description of first aid measures:

All recommendations are given in good faith but without warranty

Product Safety Data Sheet

CHEMSET® ES 8119 Eco Enamelling Resin

Labelling according to Regulation (EC) No 1272/2008 (CLP)



GHS07



GHS09

Warning

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P337+P313 If eye irritation persists: Get medical advice/attention
P391 Collect spillage.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

None known

COMPOSITION / INFORMATION ON INGREDIENTS

EC No: 500-033-5	Epoxy resin (number average molecular weight ≤ 700)	<50%	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2A Aquatic Chronic 2
EC No: 292-011-4	Reaction products of glycerine with epichlorhydrin and caustic soda	<50%	Acute Tox. 4 Skin Irrit. 2
EC No: 273-313-5	Oils, vegetable	<5%	Eye Irrit. 2A Aquatic Chronic 4

FIRST AID MEASURES

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- general notes
- following inhalation
- following skin contact
- following eye contact
- following ingestion
- self-protection of the first aider

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture:

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Contains epoxy constituents. May produce an allergic reaction.

Remove affected person to fresh air and keep at rest in a position comfortable for breathing.

If affected person feels unwell get medical advice/attention.

Remove affected person from source of contamination.

Remove any clothing soiled by the product.

Wash the skin with plenty of soap and water.

If skin irritation or rash occurs get medical advice/attention.

Remove affected person from source of contamination.

Remove contact lenses if present and easy to do.

Rinse cautiously with water for several minutes.

If eye irritation persists get medical advice/attention.

DO NOT INDUCE VOMITING!

Never make an unconscious person vomit or drink fluids.

Rinse mouth.

Provide rest, warmth and fresh air.

If affected person feels unwell get medical advice/attention.

Avoid breathing fume/mist/vapours/spray.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing.

Take off contaminated clothing and wash before reuse.

Harmful if swallowed

May cause skin irritation

May cause serious eye irritation

None known

FIREFIGHTING MEASURES

Dry powder, foam, CO₂, dry sand

Water jet - to prevent product entering drains/water courses.



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Hazardous combustion products

5.3 Advice for fire fighters

SECTION 6

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel

6.1.2 For emergency responders

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up:

6.3.1 For containment

6.3.2 For cleaning up

6.3.3 Other information

6.4 Reference to other sections

SECTION 7

7.1 Precautions for safe handling

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CHEMSET® ES 8119 Eco Enamelling Resin

May produce toxic fumes of carbon monoxide (CO) and carbon dioxide (CO₂) during a fire.

Wear self-contained breathing apparatus with chemical resistant gloves.

ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment as referred to in Section 8.
Avoid contact with skin, eyes and personal clothing.
Stop leak if possible without risk.
Keep unprotected persons away.

Wear suitable protective equipment as referred to in Section 8.
Avoid contact with skin and eyes.
Avoid release to the environment.
Collect spillage.

Do not allow to enter drainage system, surface or ground water.
Inform authorities if there is a possibility that large amounts of product might enter sewer or waterway.

Prevent from spreading.
Prevent from entering drains/water courses.

Absorb spillage with inert, dry, material and place into containers for recovery or disposal.
Wash area thoroughly after dealing with a spillage.

No further relevant information is available.

Dispose of contaminated material and dirty washing water as waste according to Section 13.

HANDLING AND STORAGE

Avoid contact with skin and eyes.
Avoid breathing fume/mist/vapours/spray.

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7.1.1 Protective measures

7.1.2 Advice on general occupational hygiene

7.2 Conditions for safe storage including any incompatibilities

7.3 Specific end use(s)

SECTION 8

8.1 Control parameters

8.2 Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Personal protection equipment:

Eye & face protection

Skin protection:

Hand protection:

All recommendations are given in good faith but without warranty

Product Safety Data Sheet

CHEMSET® ES 8119 Eco Enamelling Resin

Wear protective gloves/protective clothing/ eye protection/face protection.
Avoid spilling.
Avoid release to the environment.
Take off contaminated clothing and wash before reuse.

Do not eat, drink or smoke when using this product.
Wash hands at the end of each work shift and before eating, drinking, smoking or using the toilet.
Remove contaminated clothing and protective equipment before entering eating areas.
Contaminated work clothing should not be allowed out of the workplace.

Store in tightly closed containers in a dry, cool, well-ventilated place.
Store away from foodstuffs.
Keep in original containers.

This product is used for enamelling and doming applications.

EXPOSURE CONTROLS / PERSONAL PROTECTION

No occupational exposure limit values known.

Avoid breathing fume/mist/vapours/spray.
Avoid contact with the eyes, skin and clothing.
Wear protective gloves/protective clothing/ eye protection/face protection.
Wash at the end of each work shift and before eating, drinking, smoking or using the toilet.
Do not eat, drink or smoke when using this product.
Wash promptly if skin becomes wet or contaminated.
Promptly remove any clothing that becomes contaminated and launder before reuse.
Avoid release to the environment.

A good standard of general or controlled ventilation.
Protective gloves/protective clothing/eye protection/face protection.
Hand, face and eyewash facilities close to work area.
Changing facilities for containment of contaminated protective clothing.
Laundry facilities if reusable protective clothing is provided.
Hazardous waste collection point.

Safety goggles or face shield approved for use with solvent-free resins.

Protective gloves suitable for use with solvent-free resins.

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Other skin protection

Respiratory Protection

Thermal Hazards

8.2.3 Environmental Exposure
Controls

SECTION 9

9.1 Information on basic physical
and chemical properties:

Appearance

Odour

Odour threshold

pH

Melting point / freezing point

Initial boiling point and boiling
range

Flash point

Evaporation rate

Flammability

Upper/lower flammability or
explosive limits

Vapour pressure

Vapour density

Relative density

Solubility(ies):

Partition Coefficient:

n-octanol / water

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

9.2 Other information

SECTION 10

10.1 Reactivity

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Protective clothing suitable for use with solvent-free resins.

Respiratory protection may be required under exceptional circumstances when excessive air contamination exists.

No further relevant information available.

Avoid release to the environment.

Do not allow to enter drainage system, surface or ground water.

PHYSICAL AND CHEMICAL PROPERTIES

Pale coloured viscous liquid

Slightly sweet

Not determined

Not determined

Not determined

Not determined

>200°C

Not determined

Product is not flammable under normal temperature conditions

Not determined

Not determined

Not determined

1.19 g/cm³ at 25°C

Soluble in organic solvent

Partially soluble in water

Not determined

Not determined

Not determined

Not determined

Not classified as explosive

Not classified as oxidising

No further relevant information available

STABILITY AND REACTIVITY

Reacts with amines.

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- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous decomposition products

SECTION 11

- 11.1 Information on toxicological effects:
 - acute toxicity;
 - skin corrosion / irritation
 - serious eye damage / irritation
 - respiratory or skin sensitisation
 - germ cell mutagenicity
 - carcinogenicity
 - reproductive toxicity
 - Summary of evaluation of the CMR properties
 - STOT single exposure
 - STOT repeated exposure
 - aspiration hazard

SECTION 12

- 12.1 Toxicity

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No hazardous reaction when handled and stored according to provisions.

Exothermic reaction with amines, acids, bases and oxidizing substances. Polymerisation may occur at higher temperatures.

No further relevant information available.

Strong acids, bases and oxidising substances.

High temperatures generate vapours/gases/fumes of carbon monoxide (CO) and carbon dioxide (CO₂).

TOXICOLOGICAL INFORMATION

ATE_{mix} (oral) <3060 mg/kg

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

No mutagenic effects known.

No carcinogenic effects known.

No reproductive toxicity effects known.

According to present knowledge no CMR effects are known.

No single exposure specific target organ toxicity effects known.

No repeated exposure specific target organ toxicity effects known.

No aspiration hazard effects known.

ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

Toxicity to aquatic species occurs at concentrations greater than water solubility.



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- 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

SECTION 13

- 13.1 Waste treatment methods

SECTION 14

- 14.1 UN number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards
- 14.6 Special precautions for user
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

SECTION 15

- 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
- 15.2 Chemical safety assessment

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Not readily biodegradable.

No further relevant information available.

No further relevant information available.

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

No further relevant information available.

DISPOSAL CONSIDERATIONS

Product, packaging and cleaning waste should be disposed of using a registered waste carrier operating in accordance with local regulations. Waste should not be disposed of by release to sewers.

TRANSPORT INFORMATION

UN 3082

Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)

Class 9 Miscellaneous dangerous substances and articles

III

Marine pollutant.

Not applicable.

This product is not intended to be transported in bulk.

REGULATORY INFORMATION

No further relevant information available.

A Chemical Safety Assessment has not been carried out for this mixture.

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SECTION 16

Revisions Made

Legend

Classification Procedure

Note:-

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OTHER INFORMATION

None

ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
EC No.	EINECS and ELINCS Number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
EU	European Union
GHS	Globally Harmonized System
N/A	Not applicable
PBT	Persistent, Bioaccumulative and Toxic substance
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative
Acute Toxicity – Oral	Calculation method
Skin Irritant	Calculation method
Skin Sensitiser	Calculation method
Eye Irritant	Calculation method
Aquatic Chronic	Summation method

This product is intended for industrial use only and should be used in accordance with good industrial hygienic practice, the recommendations described in the relevant Product Information Sheets and in conformity with the current statutory regulations.

The information given is based on our present knowledge and is supplied solely in connection with the safe use of the product. It is not to be taken as guaranteeing specific properties and customers should satisfy themselves as to the suitability and completeness of such information for their own use.

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