

SAFETY DATA SHEET



Restorer IC-20

1. Identification of the substance/preparation and of the company/undertaking

Product name : Restorer IC-20
Code : 24010
Head Office : **Cookson Electronics** **Manufacturer** : Cookson Electronics Assembly Materials Group
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Material uses : Water-conditioning agent.

2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe 1h-benzotriazole	95-14-7	1 - 5	202-394-1	Xn; R22 Xi; R36 R52/53
See section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in Section 8

* The classifications listed, indicate the potential hazards of the ingredients

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.
Skin contact : Slightly hazardous in case of skin contact (irritant).
Toxicity data : Not available.

4. First aid measures

First-Aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention.

5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used : waterjet.
- Special fire-fighting procedures** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Environmental precautions and clean-up methods** : Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Handling** : Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient name Occupational exposure limits

Europe	
Sweden	
Denmark	
Norway	
France	
Netherlands	
Germany	
Finland	
United Kingdom (UK)	

Restorer IC-20

propylene glycol

EH40-OES (United Kingdom (UK), 2002). Notes: OES

TWA: 10 mg/m³ 8 hour(s). Form: Particulate

TWA: 474 mg/m³ 8 hour(s). Form: Sum of vapor and particulates

TWA: 150 ppm 8 hour(s). Form: Sum of vapor and particulates

Where a MEL has been assigned, exposure should be reduced as low as is reasonably practicable and should not exceed the MEL.

[Austria](#)

[Switzerland](#)

[Belgium](#)

[Ireland](#)

propylene glycol

NAOSH (Ireland, 1999).

OELV: 10 mg/m³ 8 hour(s). Form: Particulate

OELV: 470 mg/m³ 8 hour(s). Form: Sum of vapor and particulates

OELV: 150 ppm 8 hour(s). Form: Sum of vapor and particulates

[Spain](#)

[Lithuania](#)

propylene glycol

Del Lietuvos Higienos Normos (Lithuania, 12/2001).

TWA: 7 mg/m³ 8 hour(s). Form: All forms

Personal protective equipment

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

<1 hour(s) (breakthrough time): disposable vinyl

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Recommended: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommended: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Additional Information

: Not available.

9. Physical and chemical properties

General information

Appearance

Physical state

: Liquid.

Colour

: Amber.

Odour

: Faint

Important health, safety and environmental information

pH

: 7 (Conc. (% w/w): 100) [Neutral.]

Boiling point

: 100°C (212°F)

Melting point

May start to solidify at -0.1°C (31.8°F) based on data for: water. Weighted average: -24.36°C (-11.8°F)

Relative density

: 1.201 (20°C / 68°F)

Solubility

: Easily soluble in cold water, hot water.

Vapor density

: The highest known value is 2.62 (Air = 1) (propylene glycol).

Restorer IC-20

Evaporation rate (butyl acetate = 1) : The highest known value is 0.36 (water) Weighted average: 0.22 compared to (n-BUTYL ACETATE=1)

10. Stability and reactivity

Stability : The product is stable.

11. Toxicological information

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
1h-benzotriazole	LD50	560 mg/kg	Oral	Rat
	LD50	500 mg/kg	Oral	Guinea pig
	LD50	615 mg/kg	Oral	Mouse
	LDLo	450 mg/kg	Dermal	Rabbit

Local effects

- Skin irritation** : Slightly hazardous in case of skin contact (irritant).
Sensitisation : Slightly hazardous in case of skin contact (sensitiser).
Toxicity data : Not available.

Over-exposure signs/symptoms

12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification : Not applicable.

European waste catalogue (EWC) : 16 03 06

Hazardous waste : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

14. Transport information

International transport regulations

<u>Regulatory Information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional Information</u>
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

- Risk Phrases** : This product is not classified according to the EU regulations.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications, Industrial applications.
- Additional warning phrases** : Safety data sheet available for professional user on request.
- EC Statistical classification (Tariff Code)** : 32089091

National regulations

Denmark

- Additional warning phrases** : Safety data sheet available for professional user on request.
- Denmark – Cancer risks** : Not available.
- MAL-code** : 00-3
- Denmark – Restrictions on use** : Not available.
- Statutory order 517 on aerosols** : Not applicable.

Netherlands

- K-Klasse** : K5
- CPR** : Not regulated.
- SHHR** : 0ZZ

Germany

- Other Regulations** : TRGS 900
- Ordinance on combustible liquids** : Class: Omitted
- Hazard class for water** : nwg

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe : R22- Harmful if swallowed.
R36- Irritating to eyes.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe : Xn - Harmful
Xi - Irritant

History

- Date of printing** : 15/09/2005.
- Date of issue** : 15/09/2005.
- Date of previous issue** : No Previous Validation.
- Version** : 1
- Prepared by** : Simon Hosken
Environmental, Health and Safety Manager

References

The Health and Safety At Work Act 1974, section 6.
Control of Substances Hazardous to Health (CoSHH) Regulations 2002 and its amendments.

Preparation contains solely TSCA and EINECS listed substances.

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC and their amendments.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

