

# SAFETY DATA SHEET

This safety datasheet complies with the requirements of Regulation (EC) No. 830/2015



**CREATIVE  
RESINS**

## IRO sleeper coating (mountain grey)

Version	Revision Date:	Date of last issue: 30.05.2017
1.1	03.07.2017	Date of first issue: 30.05.2017

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : IRO sleeper coating (mountain grey)

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

Use of the Sub-  
stance/Mixture : Raw material  
Industrial use

#### 1.3 Details of the supplier of the safety data sheet

Company : Creative Resins  
Unit 17C, Upper Field Road, Eurolink Industrial Estate,  
Sittingbourne, Kent, ME10 3UP

Telephone : +44 (0) 1795 411820

Telefax : +44 (0) 1795 411820

E-mail address of person  
responsible for the SDS : info@creative-resins.co.uk

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : +44 (0) 1795 411820

National Emergency Tele-  
phone Number : Not applicable

Poison Information Centre telephone number

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

##### Additional Labelling

**EUH208** Contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2H)-one. **the treated article incorporates biocidal products  
May produce an allergic reaction.**

#### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

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This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Polymer  
aqueous dispersion

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. REACH Registration Number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
Ammonia, anhydrous	7664-41-7 231-635-3 01-211948876-14- XXXX	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Chronic 2; H411 Aquatic Acute 1; H400 M-Factor1	< 0.2

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Get medical attention if symptoms occur.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Remove contaminated clothing. If irritation develops, get medical attention.  
Wash contaminated clothing before reuse.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Do NOT induce vomiting.

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### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Repeated or prolonged exposure may cause irritation of eyes and skin.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Not combustible.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No information available.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : The pressure in sealed containers can increase under the influence of heat.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.

Further information : The product itself does not burn.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so.

Large spills should be collected mechanically (remove by pumping) for disposal.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Pick up and transfer to properly labelled containers.

Clean contaminated floors and objects thoroughly while observing environmental regulations.

Dispose of in accordance with local regulations.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Wear personal protective equipment.

For personal protection see section 8.

Avoid inhalation, ingestion and contact with skin and eyes.

Do not use in areas without adequate ventilation.

Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Keep in properly labelled containers.

Store between 5 and 35 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Do not freeze.

### 7.3 Specific end use(s)

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Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ammonia, anhydrous	7664-41-7	TWA	20 ppm 14 mg/m <sup>3</sup>	GKV (Aus)
		STEL	50 ppm 36 mg/m <sup>3</sup>	GKV (Aus)
		TWA	20 ppm 14 mg/m <sup>3</sup>	VLEP/GWBB (BE)
		STEL	50 ppm 36 mg/m <sup>3</sup>	VLEP/GWBB (BE)
		TWA	20 ppm 14 mg/m <sup>3</sup>	WEA (DA)
		STEL	40 ppm 28 mg/m <sup>3</sup>	WEA (DA)
		TWA	20 ppm 14 mg/m <sup>3</sup>	IOELV (EU)
		STEL	50 ppm 36 mg/m <sup>3</sup>	IOELV (EU)
		TWA	10 ppm 7 mg/m <sup>3</sup>	VLEP (FR)
		STEL	20 ppm 14 mg/m <sup>3</sup>	VLEP (FR)
		TWA	20 ppm 14 mg/m <sup>3</sup>	TRGS 900 (DE)
		STEL	40 ppm 28 mg/m <sup>3</sup>	TRGS 900 (DE)
		TWA	14 mg/m <sup>3</sup>	AK (HU)
		STEL	36 mg/m <sup>3</sup>	AK (HU)
		TWA	20 ppm 14 mg/m <sup>3</sup>	TLV-TWA (USA, IT, GR)
		STEL	50 ppm 36 mg/m <sup>3</sup>	TLV-TWA (USA, IT, GR)
		STEL	28 mg/m <sup>3</sup>	NDS (PL)
		TWA	20 ppm 14 mg/m <sup>3</sup>	VLA (ES)
		STEL	50 ppm 36 mg/m <sup>3</sup>	VLA (ES)
		STEL	36 mg/m <sup>3</sup>	MAC (NL)
TWA	25 ppm 18 mg/m <sup>3</sup>	EH40 (UK)		
STEL	35 ppm 25 mg/m <sup>3</sup>	EH40 (UK)		

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		TWA	20 ppm 14 mg/m <sup>3</sup>	OEL (SE)
		STEL	50 ppm 36 mg/m <sup>3</sup>	OEL (SE)

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonia, anhydrous	Workers	Skin contact	Short term, Systemic toxicity	68 mg/kg
	Workers	Inhalation	Short term, Systemic toxicity	47.6 mg/m <sup>3</sup>
	Workers	Inhalation	Short term, Local effects	36 mg/m <sup>3</sup>
	Workers	Skin contact	Long term, Systemic toxicity	68 mg/kg
	Workers	Inhalation	Long term, Systemic toxicity	47.6 mg/m <sup>3</sup>
	Workers	Inhalation	Long term, Local effects	14 mg/m <sup>3</sup>
	Consumers	Skin contact	Short term, Systemic toxicity	68 mg/kg
	Consumers	Inhalation	Short term, Systemic toxicity	23.8 mg/m <sup>3</sup>
	Consumers	Ingestion	Short term, Systemic toxicity	6.8 mg/kg
	Consumers	Inhalation	Short term, Local effects	7.2 mg/m <sup>3</sup>
	Consumers	Skin contact	Long term, Systemic toxicity	68 mg/kg
	Consumers	Inhalation	Long term, Systemic toxicity	23.8 mg/m <sup>3</sup>
	Consumers	Ingestion	Long term, Systemic toxicity	6.8 mg/kg
	Consumers	Inhalation	Long term, Local effects	2.8 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Ammonia, anhydrous	Fresh water	0.0011 mg/l
	Marine water	0.0011 mg/l
	Intermittent use/release	0.0068 mg/l

## 8.2 Exposure controls

### Engineering measures

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours.

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

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Hand protection  
Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0.1 - 0.4 mm

Remarks : Protective gloves complying with EN 374. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : not required under normal use  
Skin should be washed after contact.  
Remove and wash contaminated clothing before re-use.

Respiratory protection : not required under normal use

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

### Environmental exposure controls

General advice:

The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid, aqueous dispersion  
Colour : white  
Odour : ester-like  
Odour Threshold : not determined  
pH : 7.5 - 8.5  
Melting point/freezing point : not determined  
Boiling point : not determined  
Flash point : Not applicable  
Evaporation rate : not determined  
Flammability (solid, gas) : The product is not flammable.  
Upper explosion limit : Not applicable  
Lower explosion limit : Not applicable

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Vapour pressure	:	ca. 23 hPa (at 20 °C)
Relative vapour density	:	not determined
Relative density	:	0.9 - 1.1
Solubility(ies) Water solubility	:	insoluble, completely miscible, in all proportions
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	Not applicable
Viscosity Viscosity, dynamic	:	40 - 1,000 mPa s
Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable

### 9.2 Other information

: No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.



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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Components:

###### Ammonia, anhydrous:

Acute oral toxicity : LD50 Oral (Rat): 350 mg/kg  
Method: OECD Test Guideline 401

##### Skin corrosion/irritation

###### Components:

###### Ammonia, anhydrous:

Species: Rabbit  
Method: OECD Test Guideline 404  
Remarks: Causes severe skin burns.

##### Serious eye damage/eye irritation

###### Components:

###### Ammonia, anhydrous:

Remarks: Severe eye irritation

##### Respiratory or skin sensitisation

###### Components:

###### Ammonia, anhydrous:

Remarks: Does not cause skin sensitisation.

##### Germ cell mutagenicity

###### Components:

###### Ammonia, anhydrous:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Remarks: In vitro tests did not show mutagenic effects

##### Carcinogenicity

###### Components:

###### Ammonia, anhydrous:

Remarks: Based on available data, the classification criteria are not met.

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### STOT - single exposure

#### Components:

##### **Ammonia, anhydrous:**

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

#### Components:

##### **Ammonia, anhydrous:**

Remarks: No data available

### Further information

#### Product:

Remarks: **No data is available on the product itself.**

**Information given is based on data on the components and the toxicology of similar products.**

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Ammonia, anhydrous:**

Toxicity to fish : LC50 (Fish): 0.8 mg/l  
Exposure time: 96 h  
Remarks: Very toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24.4 mg/l  
Exposure time: 48 h

Toxicity to algae : Remarks: No data available

Toxicity to fish (Chronic toxicity) : LOEC: 0.05 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.79 mg/l  
Exposure time: 96 h  
Species: Daphnia magna (Water flea)

LOEC: 1.3 mg/l  
Exposure time: 96 h  
Species: Daphnia magna (Water flea)

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LC50: 4.07 mg/l  
Exposure time: 96 h  
Species: Daphnia magna (Water flea)

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

Physico-chemical removability : 98 %  
Method: OECD Test Guideline 302  
Remarks: The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

#### Components:

##### **Ammonia, anhydrous:**

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### Components:

##### **Ammonia, anhydrous:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)..  
: This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB)..

### 12.6 Other adverse effects

#### Product:

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Additional ecological information : This product has no known ecotoxicological effects.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.

The product should not be allowed to enter drains, water courses or the soil.

Waste water from subsequent processing should be given appropriate treatment in line with local regulations.

Contaminated packaging : In accordance with local and national regulations.

### SECTION 14: Transport information

#### 14.1 UN number

Not dangerous goods

#### 14.2 UN proper shipping name

Not dangerous goods

#### 14.3 Transport hazard class(es)

Not dangerous goods

#### 14.4 Packing group

Not dangerous goods

#### 14.5 Environmental hazards

Not dangerous goods

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations:  
not determined

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### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

H221	:	Flammable gas.
H314	:	Causes severe skin burns and eye damage.
H331	:	Toxic if inhaled.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Flam. Gas	:	Flammable gases
M-Factor	:	M-Factor
Skin Corr.	:	Skin corrosion

### Further information

Other information : Information taken from reference works and the literature.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-

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ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

GB / EN