

SAFETY DATA SHEET

RS-12A Resin

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME RS-12A Resin

PRODUCT NO. RS12A

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2 HAZARDS IDENTIFICATION

Flammable. Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects.

CLASSIFICATION Xn;R20/21/22. Mut 3;R68. C;R34. R10.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
RESORCINOL	203-585-2	108-46-3	5-10%	Xn;R22 Xi;R36/38 N;R50
PHENOL	203-632-7	108-95-2	1-5%	Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
SODIUM HYDROXIDE	215-185-5	1310-73-2	1-5%	C;R35
FORMALDEHYDE ...%	200-001-8	50-00-0	< 1	Carc3;R40 T;R23/24/25 C;R34 R43

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Foam. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of: Phenolic.

PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

In case of spills, beware of slippery floors and surfaces. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Clean-up personnel should use respiratory and/or liquid contact protection.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from light, including direct sunrays. Store separated from: Acids. Alkalies. Oxidising material.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
FORMALDEHYDE ...%	WEL	2 ppm	2.5 mg/m ³	2 ppm	2.5 mg/m ³	
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)	
PHENOL	WEL	2 ppm(Sk)				
RESORCINOL	WEL	10 ppm(Sk)	46 mg/m ³ (Sk)	20 ppm(Sk)	92 mg/m ³ (Sk)	
SODIUM HYDROXIDE	WEL				2 mg/m ³	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact. Use face shield in case of splash risk.

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HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Red brown		
ODOUR	Mild		
SOLUBILITY	Soluble in water.		
BOILING POINT (°C)	78	RELATIVE DENSITY	1.12 20
FLASH POINT (°C)	43 CC (Closed cup).		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong acids. Strong alkalis. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases may be formed. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of: Phenolic.

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may irritate throat and respiratory system and cause coughing. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Harmful in contact with skin. Causes burns.

EYE CONTACT

Causes burns. Risk of serious damage to eyes.

ROUTE OF ENTRY

Inhalation. Skin and/or eye contact. Ingestion.

TARGET ORGANS

Respiratory system, lungs. Skin. Eyes. Gastro-intestinal tract. Kidneys. Liver.

MEDICAL SYMPTOMS

Upper respiratory irritation. General respiratory distress, unproductive cough. Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea). Skin irritation. Skin contact may cause: Allergic rash. Dry skin. Eye contact may cause: Extreme irritation of eyes and mucous membranes, including burning and tearing. May cause discomfort if swallowed.

MEDICAL CONSIDERATIONS

Convulsive disorders, CNS problems. Skin disorders and allergies. Persons with rash are directed to skin expert for examination of allergic eczema. Splash in eye requires examination by eye specialist.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MOBILITY

Mobile. The product is soluble in water.

BIOACCUMULATION

No data available on bioaccumulation.

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DEGRADABILITY

No data available.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	RESIN SOLUTION		
UN NO. ROAD	1866	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	30	ADR LABEL NO.	3
HAZCHEM CODE	3YE	CEFIC TEC(R) NO.	30GF1-I+II, 30GF1-sp
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1866	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	III
EMS	F-E, S-E	MFAG	See Guide
UN NO. AIR	1866	AIR CLASS	3
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful

CONTAINS

PHENOL

RISK PHRASES

R10	Flammable.
R34	Causes burns.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68	Possible risk of irreversible effects.

SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974.

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EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (SI 1689)

APPROVED CODE OF PRACTICE

Control of Substances Hazardous to Health Regulations 2002.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE	28.01.09
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SDS NO.	10357
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SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

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|--------------|--|
| R11 | Highly flammable. |
| R22 | Harmful if swallowed. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns. |
| R35 | Causes severe burns. |
| R36/38 | Irritating to eyes and skin. |
| R37 | Irritating to respiratory system. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| R40 | Limited evidence of a carcinogenic effect. |
| R43 | May cause sensitisation by skin contact. |
| R48/20/21/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. |
| R50 | Very toxic to aquatic organisms. |
| R68 | Possible risk of irreversible effects. |

DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.