

SAFETY DATA SHEET
RS CYANOCRYLATE ADHESIVES

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RS REACH MSDS Date 01/05/11**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING****Product name:** RS CYANOCRYLATE ADHESIVES**Index number:** 01-005-406**Product code:** RS 473-388, 473-423, 473-433, 473-445, 473-449, 473-451, 473-455, 473-461**Use of substance / preparation:** Cyanoacrylate adhesive**Company name:** RS Components Ltd

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2. HAZARDS IDENTIFICATION**Main hazards:** Irritating to eyes, respiratory system and skin.**Other hazards:** Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.**3. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous ingredients:** ETHYL-2-CYANOACRYLATE >90%

EINECS: 230-391-5 CAS: 7085-85-0

[Xi] R36/37/38

4. FIRST AID MEASURES

(SYMPTOMS) Skin contact: There may be irritation and redness at the site of contact. In the case of large spills on the skin, superficial burns may occur - treat accordingly.

Eye contact: Cyanoacrylates bond eyelids in seconds. There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

(ACTION)

Skin contact: Do not pull bonded skin apart. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. If irritation persists, obtain medical attention.

[cont...]

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Eye contact: Bathe the eye with running water for 15 minutes. If the eyelid is bonded closed, do not force open. Cover with wet pad soaked in warm water. Get prompt medical attention in case solid particles of cured cyanoacrylate trapped behind the eye cause abrasive damage. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding).

Ingestion: Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth over a period of hours. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Do not use water.

Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Evacuate the area immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. (do not use cloths). Transfer to a closable, labelled salvage container for disposal by an appropriate method. Or polymerise slowly with water (~10:1, adhesive : water) and then scrape up.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Wear polythene, polypropylene or viton gloves. Latex (natural rubber), nylon or PVC gloves only provide protection for a few seconds. Ambient humidity should be >35% to minimise discomfort.

Storage conditions: Store in cool, well ventilated area. Keep away from direct sunlight. Keep container tightly closed. Keep away from sources of ignition. Refrigerated storage (2 - 8°C) is recommended for optimum shelf-life.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ETHYL-2-CYANOACRYLATE
WEL (15 min STEL): 1.5 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

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Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Viton gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Acrid

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Reacts with water.

Also soluble in: Acetone.

Viscosity: Non-viscous

Viscosity value: 20-100cPs

Viscosity test method: Rotational viscometer

Boiling point/range°C: >150

Flash point°C: >85

Part.coeff. n-octanol/water: n/a

Vapour pressure: ~0.04mmHg @25oC

Relative density: ~1.07

pH: ~6-7

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Polymerises rapidly with water.

Conditions to avoid: Heat. Direct sunlight. Sources of ignition. Moist air. Humidity.

Materials to avoid: Strong oxidising agents. Water. Bases. Alcohols. Amines.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ETHYL-2-CYANOACRYLATE

ORL RAT LD50 >5 ml/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Considered to be very low due to rapid polymerisation with water.

Persistence and degradability: Only slightly biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Negligible ecotoxicity.

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13. DISPOSAL CONSIDERATIONS

Disposal operations: Dispose of as Special Waste in accordance with local and national legislation. Or polymerise slowly with water (10:1, adhesive : water). Hardened product can be disposed of in land-fill sites by licensed contractors.

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

IATA / ICAO

UN no: 3334

ADR Class: 9

Classification code: M11

Shipping name: AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate)

Labelling: 9



IMDG / IMO

UN no: Not classified hazardous under IMDG

Class:

Marine pollutant:

Labelling:

ADR / RID

UN no: Not classified hazardous under ADR

Class:

Packing instructions:

Labelling:

15. REGULATORY INFORMATION

Hazard symbols: Irritant.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

Safety phrases: S23: Do not breathe vapour.

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.

S37: Wear suitable gloves.

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Precautionary phrases: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This Safety Data Sheet is compiled with reference to The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3) which implement the Council Directives 67/548/EC (The Dangerous Substances Directive) and 99/45/EC (The Dangerous Preparations Directive) and subsequent amending regulations to both, and also the Safety Data Sheet Directive 91/155/EC and subsequent amending regulations.

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Risk phrases used in s.3: R36/37/38: Irritating to eyes, respiratory system and skin.

Legal disclaimer: The information contained in this safety data sheet was obtained from a variety of sources and is believed to be accurate and current at the stated issue date. RS Components Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.