

SAFETY DATA SHEET

CP0708 v3.0 RS 303-2397

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

PREPARATION NAME : **SKD-S2 Aerosol**

USE : Solvent Developer

COMPANY IDENTIFICATION : MAGNAFLUX® a Div of ITW LTD
FARADAY RD, SOUTH DORCAN IND EST,
SWINDON, ENGLAND, SN3 5HE

EMERGENCY TELEPHONE : 01793 524566

Supplied by:
RS Components Ltd.
Birchington Road, Corby, Northants, NN17 9RS.
Tel: (01536) 402888

2. COMPOSITION INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>EC No</u>	<u>CAS No</u>	<u>% W/W</u>	<u>SYMBOL</u>	<u>R PHRASES *</u>
ACETONE	200-662-2	67-64-1	> 50 %	F, Xi,	R11, R36, R66, R67
PROPAN-2-OL	200-661-7	67-63-0	< 25 %	F, Xi	R11,R36
BUTANE	203-448-7	106-97-8	< 40 %	F+	R.12

Other Ingredients : Calcium Carbonate, Talc, Inert pigments.

Note : Risk phrases in this section apply only to raw materials, not necessarily to finished products. See section 15.

*See Section 16 for risk phrase text

3. HAZARDS IDENTIFICATION

Extremely flammable.
Aerosols are pressurised containers.
Vapours can form explosive mixtures with air.
Solvents are irritating to eyes.

4. FIRST AID

- EYE CONTACT** ➤ Flush eyes with large amounts of water for at least 10 minutes and seek medical attention.
- SKIN CONTACT** ➤ Flush with water, use soap if available. Contaminated clothing should be washed before re-use.
- INHALATION** ➤ Remove to fresh air. Keep at rest. Call for prompt medical attention.
- INGESTION** ➤ Do not induce vomiting. Seek prompt medical attention.

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5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA** ➤ Carbon dioxide, Foam, Dry chemical, Water fog or spray.
- SPECIAL FIRE FIGHTING PROCEDURES** ➤ Evacuate immediate area. Shut off "fuel" to fire. If possible keep unaffected containers cool with water spray. Aerosols may explode in a fire. Warn fire-fighters that aerosols are involved.
- HAZARDOUS DECOMPOSITION PRODUCTS** ➤ Aerosol contents are extremely flammable releasing smoke, soot, oxides of carbon on combustion.
- PROTECTIVE EQUIPMENT** ➤ Self contained breathing apparatus and suitable protective clothing should be worn in fire fighting conditions.

6. ACCIDENTAL RELEASE MEASURES

- SPILL CLEAN UP METHODS** ➤ Eliminate sources of ignition. Contain spilled liquid with sand or earth. Mop up or absorb onto an inert absorbent. Large spills should be pumped (Use explosion proof pump) into containers pending disposal.
- ENVIRONMENTAL PRECAUTIONS** ➤ Prevent liquid from entering drains sewers and watercourses. Notify the water authorities if a major spillage occurs.
- PERSONAL PRECAUTIONS** ➤ Wear suitable protective equipment to avoid inhaling solvent vapours.

7. HANDLING & STORAGE

- USAGE PRECAUTIONS** ➤ Aerosol contents are highly flammable and volatile. Keep away from sources of ignition. Wear suitable protective clothing such as chemical resistant gloves, apron & goggles / face mask to protect from splashes. Avoid contact with the skin. Do not breathe product spray or mist. Ensure adequate ventilation when in use.
- STORAGE PRECAUTIONS** ➤ Store in a cool dry area away from heat and sources of ignition. Recommended storage temperature $\geq 10^{\circ}\text{C}$ to 30°C . Keep containers out of direct sunlight. Keep containers closed when not in use. Protect aerosols from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure figures have been set for some of the components of this preparation based on EH-40 (latest revision) or manufacturers recommendation.

RD = Respirable dust.

MRL = Manufacturers recommended limit

OES = Occupational exposure standard

INGREDIENT NAME	STD	LT Exp (8 Hrs)	ST Exp (15 Min)
ACETONE	OES	500 ppm (1210 mg/m ³)	1500 ppm (3620 mg/m ³)
PROPAN-2-OL	OES	400 ppm (999 mg/m ³)	500 ppm (1250 mg/m ³)
BUTANE	OES	600 ppm	750 ppm
CALCIUM CARBONATE	OES	4 mg/m ³	
TALC	OES	1 mg/m ³	

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WORKPLACE EXPOSURE

Concentrations of product mists and sprays in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures. Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

- Respiratory protection** ➤ Use a respirator with appropriate canister type filter cartridge if spraying in confined or unventilated area's.
- Hand protection** ➤ Use chemical resistant gloves recommended by glove manufacturer as being suitable for isopropyl alcohol, if hand exposure is unavoidable.
- Eye protection** ➤ Wear goggles/face mask to protect eyes from splashes.
- Skin protection** ➤ Wear chemical resistant overalls if skin contact is likely.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	:	AEROSOL CONTAINING MOBILE WHITE LIQUID
ODOUR	:	ALCOHOLIC
pH	:	NEUTRAL
BOILING POINT	:	75 °C
MELTING POINT	:	N/A
FLASH POINT (PMCC)	:	-40°C (Aerosol propellant)
FLAMMABILITY (Limits in Air)	:	2% TO 15% (VOL %)
AUTOFLAMMABILITY	:	> 200°C
EXPLOSIVE PROPERTIES	:	N/A
OXIDISING PROPERTIES	:	N/A
VAPOUR PRESSURE	:	138 mm Hg @ 38°C
VAPOUR DENSITY (Air = 1)	:	> 1
RELATIVE DENSITY	:	0.88 g/ml
SOLUBILITY IN WATER	:	87 %
PARTITION COEFFICIENT	:	N/D
EVAPORATION RATE (BuAc = 100)	:	250
VISCOSITY (ASTM D-445)	:	< 10 cSt @ 25°C

N/A = Not Applicable

N/D = Not Determined.

Properties relate to the bulk liquid only unless otherwise stated.

10. STABILITY & REACTIVITY

- STABILITY** ➤ Stable under normal conditions of use and applications.
- HAZARDOUS POLYMERISATION** ➤ None.
- MATERIALS & CONDITIONS TO AVOID** ➤ Strong oxidising agents.
- HAZARDOUS DECOMPOSITION PRODUCTS** ➤ None under normal conditions of storage and use. Smoke, soot, oxides of Carbon on combustion.

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11. TOXICOLOGICAL INFORMATION

- INHALATION** ➤ Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.
- INGESTION** ➤ Ingestion may cause irritation of the mouth, throat and digestive tract. Absorption of large amounts may cause systemic effects.
- EYE CONTACT** ➤ May produce irritation due to strong solvent action.
- SKIN CONTACT** ➤ Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de-fatting effect on the skin.

12. ECOLOGICAL INFORMATION

Based on data for component materials.

This product is highly volatile and will rapidly evaporate to the air if released into the environment. The product is expected to have low toxicity to aquatic organisms. The product is predicted to have a low potential to bioaccumulate. Product solvents have the potential to biodegrade.

13. DISPOSAL

Seek the advice of an approved waste disposal contractor for disposal in accordance with local, state or national legislation. Empty aerosol cans fully before disposing. Pressurised aerosol cans are not an acceptable waste. The Special Waste Regulations 1996 apply to the disposal of this material. Other provisions are the Waste Framework Directive (75/442/EEC), the Hazardous Waste Directive (91/689/EEC), the Environmental Protection Act 1990 and the Environment Act 1995.

14. TRANSPORT INFORMATION

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR & IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30 kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

UN Number	1950
I.M.C.O / I.M.D.G Class	2 Pg 2102
I.A.T.A / I.C.A.O	2.1
LABEL FOR ROAD CONVEYANCE	FLAMMABLE GAS



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15. REGULATORY INFORMATION

LABEL FOR SUPPLY



Extremely
Flammable



Irritant

RISK PHRASES

R12	Extremely flammable
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S2	Keep out of reach of children.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/ spray.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water And seek medical advice.
S51	Use only in well ventilated areas.

Aerosol containers can be regarded as exempt from classification as an aspiration hazard under BAMA guidelines.

Regulatory References

- ⇒ Health & Safety at Work Act 1974
- ⇒ Control of Substances Hazardous to Health Regulations 1988
- ⇒ Occupational Exposure Limits EH 40
- ⇒ Chemical (Hazard Information & Packaging for Supply) Regulations 2002. (CHIP 3)
- ⇒ EC Directive 91/155/EEC
- ⇒ Dangerous Preparations Directive 1999/45/EC

16. OTHER INFORMATION

R Phrases in full

R11	Highly flammable
R12	Extremely flammable
R38	Irritating to skin.
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness.

Revision Date : 01/03/2004 Rev : 04

Revision Summary : SDS updated in compliance with the Chemical (Hazard Information & Packaging for Supply) Regulations 2002. (CHIP 3)