

# SAFETY DATA SHEET

## ACID CRYSTALS



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

**1.1. Product identifier** Acid Crystals

**1.2. Relevant identified uses of the substance or mixture and uses advised against** Descaler

**1.3. Details of the supplier of the safety data sheet**

<b>Supplier</b>	Fullwood Limited Grange Road, Ellesmere Shropshire SY12 9DF	<b>Manufacturer</b>	Kilco (International) Ltd. Broomhouses 2 Industrial Estate, Old Glasgow Road, Lockerbie, Dumfriesshire. DG11 2SD
<b>Phone Number</b>	01691 627391	<b>Phone Number</b>	+44 (0) 1576 205480
<b>Fax Number</b>	01691 627361	<b>Fax Number</b>	+44 (0) 1576 205483
		<b>Emergency Phone Number</b>	+44 (0) 1576 205480 [UK 9am - 5pm only]
		<b>E-mail</b>	sds@kilco.co.uk

**1.4. Emergency telephone number** +44 (0) 207 858 1228 (24 hours)

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

Classification (1999/45/EEC) Irritant

**2.2. Label elements**

**Symbol (s)** Xi

**Risk phrases** R36/38 Irritating to eyes and skin.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** S2 Keep out of the reach of children  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of water.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**2.3. Other hazards**

This product does not contain any PBT or vPvB substances.

### SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

Chemical Characterisation: Sulphamic acid crystals

Component	EINECS No:	CAS No:	% Inclusion	Classification	Concentration limits (Annex I 67/548/EEC)
Sulphamic acid	226-218-8	5329-14-6	>99	Xi; R36/38 R52/53	-

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

**General advice** Remove from exposure  
**Eyes** Rinse with plenty of water. If irritation persists, seek medical advice.  
**Skin** Rinse with plenty of water. Remove contaminated clothing. If irritation persists, seek medical advice.  
**Ingestion** Rinse mouth with water and then drink plenty of water, If discomfort persists, seek medical advice.  
**Inhalation** Take affected persons out into the fresh air. If breathing affected give artificial respiration and seek immediate medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

**Eyes** Severe irritation, redness and profuse watering. Corneal damage may occur.  
**Skin** Irritation and redness  
**Ingestion** Possible irritation

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Inhalation            Possible irritation

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

Treatment : Treat symptomatically. If in doubt or symptoms persist, seek medical advice immediately.

## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

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

None

### 5.3. Advice for firefighters

Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure that there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations. To cool, spray closed containers with water spray jet. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

## SECTION 6: Accidental release measures

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

Wear appropriate protective clothing, approved respirator, gloves, goggles etc – see section 8. Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away.

### 6.2. Environmental precautions

Observe regulations on preventions of water pollution (collect, dam up, cover up) Prevent the material from entering drains or watercourses.

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

Large spillages should be collected for disposal. Collect in suitable containers. Keep away from incompatible substances. Clean contaminated surface thoroughly – recommended cleaning agent – water. Dispose of absorbed material in accordance with the regulations. Never return spilled product into its original containers for re-use.

### 6.4. Reference to other sections

Protective clothing - section 8. Disposal – Section 13.

## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

Wear suitable protective clothing. Avoid contact with skin, eyes and clothing. Do not inhale vapour, aerosols, and sprays. When using, avoid spray mists. Operate in a well ventilated place. For personal protection see Section 8. Handle in accordance with good industrial hygiene and safety practice. Immediately change moistened or saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Never return spilled product into its original containers for re-use. Avoid impurities. Transport and store container in upright position only. Do not empty container by means of pressure.

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

Keep away from incompatible substances. Keep only in the original container. Keep container closed and in a clean, cool, and well ventilated place away from heat, flammable materials and intense light. Avoid residues of the product on the containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

Occupational Exposure Standards

EH40 WEL Short Term

EH40 WEL TWA

### 8.2. Exposure controls

Eye / face protection

Hand protection

Other

Respiratory protection

## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

Appearance	White Crystalline powder	Vapour pressure	No data available
Odour	No data available	Vapour density	No data available
Odour threshold	No data available	Relative density	2.050 – 2.150
pH	1.15 – 1.125	Solubility (ies)	Water soluble
Melting /freezing point	No data available	Partition coefficient: n-octanol/water	No data available
Boiling point/boiling range	No data available	Auto-ignition temperature	No data available
Flash point	No data available	Decomposition temperature	No data available
Evaporation rate	No data available	Viscosity	No data available
Flammability (solid, gas)	No flammable components	Explosive properties	No explosive components
Upper/lower flammability or explosive limits	No explosive components	Oxidising properties	Not an oxidiser

### 9.2. Other information

No Data

## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

No data supplied

### 10.2. Chemical stability

No data supplied

### 10.3. Possibility of hazardous reactions

No data supplied

### 10.4. Conditions to avoid

Water / Moisture

### 10.5. Incompatible materials

Strong Alkalis. Strong oxidising substances.

### 10.6. Hazardous decomposition products

Oxides of Nitrogen & Sulphur

## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

Acute toxicity	Oral LD50 (rat) 316 mg/kg
Irritation	No data supplied
Corrosivity	No data supplied
Sensitisation	No data supplied
Repeated dose toxicity	No data supplied
Carcinogenicity	No components are classified as Carcinogenic

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Mutagenicity No components are classified as Mutagenic  
Toxicity for reproduction No components are classified as Toxic for reproduction

### SECTION 12: Ecological information

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#### 12.1. Toxicity

No data supplied

#### 12.2. Persistence and degradability

No data supplied

#### 12.3. Bioaccumulative potential

Product is not expected to bioaccumulate.

#### 12.4. Mobility in soil

No data supplied

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### 12.6. Other adverse effects

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

### SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

Product disposal Dispose of in accordance with all applicable local and national regulations.  
Container disposal Contaminated, empty containers must be disposed of as chemical waste. Residual chemical should be disposed of by incineration or by other modes of disposal in compliance with local legislation

### SECTION 14: Transport information

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14.1. UN number 2967  
14.2. UN proper shipping name Sulphamic acid  
14.3. Transport hazard class(es) 8  
14.4. Packing group III  
14.5. Environmental hazards Marine pollutant  
14.6. Special precautions for user Not applicable  
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

### SECTION 15: Regulatory information

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

The Chemical (Hazard Information for Packaging and Supply) Regulations 2009 (SI 2009:716) and associated documents.  
COMMISSION REGULATION (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
HSE Guidance Note EH40 2007  
The European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2009 Edition.  
*The International Maritime Dangerous Goods Code, (IMDG) 2010 Edition.*  
*The International Air Transport Association Dangerous Goods Regulations, (IATA), 2012 Edition.*  
Safety Data Sheets provided by suppliers of component substances.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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### SECTION 16: Other information

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Note: Sections in italics indicate significant changes from the previous version

Full text of R phrases from section 3.

R36/38 Irritating to eyes and skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Training advice.

Those who are employed in the use of this product must be given training which highlights the need to handle and use it only in the recommended manner and at all times make use of the prescribed personal protective equipment.

Recommended restrictions on use.

This product should be stored and handled in accordance with guidance given above and used only in the recommended manner and in conformity with any legal requirements

This safety data sheet has been supplied in accordance with the requirements of Article 31 of Regulation EC No 1907/2006 (the REACH regulation) and the information contained herein is displayed in the order prescribed in Annex II to that regulation, as amended 2010. Its purpose is to facilitate the carrying out of a risk assessment. Employers are reminded of their duty to carry out such an assessment and subsequently to provide an appropriate working environment, to make available to those who are required to use this product all necessary personal protective equipment and to ensure that such equipment is used.

The safety data sheet is additional to the technical data sheet but does not replace it. The information given herein is to the best of our knowledge correct and given in good faith. It relates to the product in the state in which it is delivered. This product is for the uses specified and should only be used for those purposes. Any other use may involve risks. The user will take sole responsibility for the precautions relating to the use of the product. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Registration Number: Ireland NI3240 Place of Registration: Northern Ireland