PAGE #:1 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18
According to regulation (EC) No. 1272/2008	(EC) PRODUCT NAME: Ammonium Chloride, ACS Grade		ITEM NO: A20424

## **SECTION 1 - CHEMICAL IDENTIFICATION**

PRODUCT NAME: Ammonium Chloride, ACS Grade

CATALOG #: A20424

SUPPLIER'S NAME: Melford Laboratories Ltd

SUPPLIERS ADDRESS: Bildeston Road, Chelsworth, Ipswich, IP7 7LE, UK

EMERGENCY CONTACT: 01449 741178

OTHER INFORMATION: support@melford.co.uk

## **SECTION 2 - HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H302	Acute toxicity, Oral	Category 4
H319	Serious eye damage/eye irritation	Category 2
H401	Acute aquatic toxicity	Category 2
H411	Chronic aquatic toxicity	Category 2

# 2.2 GHS Label elements, including Hazard and Precautionary Statement(s) Pictogram





Signal word: Warning

# Hazard statement(s)

H302	Harmful if swallowed
H319	Cause Serious Eye irritation
H401	Acute aquatic toxicity
H411	Chronic aquatic toxicity

# Prevention, Response, Storage and Disposal Precautionary Statement(s)

P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

PAGE #:2 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18
According to regulation (EC) No. 1272/2008	egulation (EC) PRODUCT NAME: Ammonium Chloride, ACS Gra		ITEM NO: A20424

P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

## **SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Number: 12125-02-9
EINECS Number: 235-186-4
Formula H<sub>4</sub>CIN
Molecular Weight 53.49 g/mol

#### **SECTION 4 - FIRST-AID MEASURES**

## 4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- **ii. In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. In case of eye contact: Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
- **4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

# **SECTION 5 - FIRE FIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

- **5.2** Special hazards arising from the substance or mixture: No data available.
- **5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
- 5.4 Further information: No data available

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.
- **6.2 Environmental precautions:** Do not let product enter drains.

PAGE #:3 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18
According to regulation (EC) No. 1272/2008	PRODUCT NAME: Ammonium Chloride, AC	S Grade	ITEM NO: A20424

- **6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.
- **6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

## **SECTION 7 - HANDLING AND STORAGE**

- **7.1 Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.
- **7.2** Conditions for safe storage, including any incompatibilities: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store at room temperature.
- 7.3 Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

**Components with workplace control parameters:** Airborne Exposure Limits: Ammonium chloride: -ACGIH Threshold Limit Value (TLV): 10 mg/m³ (TWA); 20 mg/m³ (STEL) Fume Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details

### 8.2 Exposure Controls

**i. Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. Control of environmental exposure: Do not let product enter drains

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	White Powder	Vapor Pressure	No Data Available
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PAGE #:4 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18
According to regulation (EC) No. 1272/2008	n (EC) PRODUCT NAME: Ammonium Chloride, ACS Grade		ITEM NO: A20424

Odor	No Data Available	Vapor Density	No Data Available
Odor Threshold	No Data Available	Relative Density	No Data Available
pH: (1% Aqua .solution)	4.50 - 5.50	Water Solubility	No Data Available
Melting / Freezing Point	338°C (640°F)	Partition Coefficient	No Data Available
Initial Boiling Point 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 Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability Or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

# **SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable under recommended storage conditions.

Hazardous Decomposition Products: Involvement in a fire causes decomposition to form hydrogen chloride and

ammonia.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong (Concentrated) Acids, Strong Oxidizing Agent.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

# **Acute Toxicity**

LD50 Oral	LD50 Dermal	LD50 Inhalation
1410 mg/Kg (Rat)	Not Listed	Not Listed

Irritation: Irritation to eyes

# **SECTION 12 - ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Component	Rainbow Trout	Rainbow Trout	Water Flea	Water Flea
	LC50:	NOEC :	NOEC :	LC50:
Ammonium Chloride	Oncorhynchus mykiss	Oncorhynchus mykiss	Growth inhibition	Daphnia magna -
	- 3.98 mg/l - 96 h	57 mg/l - 96 h static	Daphnia magna	161 mg/l - 48 h
		(Lepomis macrochirus)	- 0.1 mg/l - 216 h	

PAGE #:5 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18
According to regulation (EC) No. 1272/2008	PRODUCT NAME: Ammonium Chloride, AC	PRODUCT NAME: Ammonium Chloride, ACS Grade	

Persistence and degradability: No data available Bioaccumlative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## **SECTION 14 - TRANSPORT INFORMATION**

DOT	TDG	IATA	IMDG/IMO
Not regulated	Not regulated	Not regulated	Not regulated

# **SECTION 15 - REGULATORY INFORMATION**

# **INTERNATIONAL INVENTORIES**

TSCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Listed	Listed	ı	-		Listed	Listed	Listed	Listed	KE-01645 Listed

# **USA FEDERAL REGULATION**

## **SARA 313**

INGREDIENT	CAS #:	Weight %	SARA 313-threshold Values %
AMMONIUM CHLORIDE	12125-02-9	>95.0%	1.0%

#### **SARA 311/312 HAZARDOUS CATEGORIZATION**

Acute Health	Chronic Health	Fire Hazard	Sudden Release Of	Reactive
Hazard	Hazard		Pressure Hazard	Hazard
Yes	No	No	No	No

TSCA 12(b)/ OSHA: Not Applicable Clean Air Act: Not Applicable

# **Clean Water Act**

CWA-Hazardous Substances	CWA-reportable quantities
Listed	500 lb

PAGE #:6 OF 6	PRODUCT SAFETY DATA SHEET MELFORD LABORATORIES LTD	ISSUE DATE: 12/15/14	REV.:2 REV Date :03/22/18	
According to regulation (EC) No. 1272/2008	PRODUCT NAME: Ammonium Chloride, AC	PRODUCT NAME: Ammonium Chloride, ACS Grade		

**CERCLA: This** material, as supplied, contains one or more substances regulated as a hazardous substance under the comprehensive Environmental Response Compensation and Liability Act (CERCLA)(40 CFR 302)

HAZARDS SUBSTANCES RQs	CERCLA EHS RQs
5000 lb	-

California Proposition 65: This product does not contain any Proposition 65 chemicals

#### STATE RIGHT TO KNOW

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	-	Listed

**HMIS Rating** 

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
2		0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
2	0	0

**US DEPARTMENT OF TRANSPORTATION** 

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Yes	No	No

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS complies with the requirements of Regulation (EC).

## **SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Melford Laboratories Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.