

# Safety Data Sheet - Northern Ireland (NI)

## Astro HS Compound

Revision 4 - 23rd February 2023



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

### 1.1. Product identifier

**Product form** : Mixture

**Product Name** : Astro HS Compound

**Type of product** : Adhesives, sealants

**Product group** : Trade product

**Product Code** : AFHSC

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

**Main use category** : Professional use

**Industrial/Professional use spec** : For professional use only

**Use of substance/Mixture** : Adhesives, sealants

#### 1.2.2. Uses advised against

No additional information available

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

**Company Name** : Astroflame (Fireseals) LTD

Unit 8 , I.O Centre

Stephenson Road

Segensworth

Fareham

PO15 5RU

United Kingdom

**Tel Number** : (0) 44 1329 844500

**Email** : sales@astroflame.com

### 1.4. Emergency telephone number

**Tel Number** : (0) 44 1329 844500 Language: English - Office hours 8am to 5:30pm GMT

Call 999 For Emergency. Call 111 For Non-Emergency medical advice.

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Precautionary statements (CLP)** :

- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P280 - Wear eye protection, protective clothing.

### 2.3. Other hazards

Other hazards which do not result in classification : Dust formation.  
 Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII  
 The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## Section 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium sulfate	CAS-No.: 7778-18-9 EC-No.: 231-900-3	> 80	Not classified
Limestone	CAS-No.: 471-34-1 EC-No.: 207-439-9	< 30	Not classified

**Comments** : Contains <1% Organic Substances

## Section 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation** : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.
- First-aid measures after skin contact** : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact** : Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion** : Rinse mouth out with water. Do not induce vomiting.

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

- Symptoms/effects** : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## Section 5: Fire-Fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media** : Water spray. Dry powder. Foam.

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

- Hazardous decomposition products in case of fire** : The product is non-combustible.

### 5.3. Advice for fire - fighters

- Protection during firefighting** : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## Section 6: Accidental release measures

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

**General measures** : Use personal protective equipment (PPE).

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Ventilate spillage area.

#### 6.1.2. For emergency responders

**Protective equipment** : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/ personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

**Methods for cleaning up** : Mechanically recover the product. Avoid dust formation.

**Other information** : Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/ personal protection".

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Additional hazards when processed** : Dust formation.

**Precautions for safe handling** : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation.

**Hygiene measures** : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

**Storage conditions** : Store in a well-ventilated place. Keep cool. Protect from moisture. Keep container closed when not in use.

### 7.3. Specific end use(s)

No additional information available

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 8: Control parameters/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

##### Calcium sulfate (7778-18-9)

##### United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> 8 hr
WEL STEL (OEL STEL)	30 mg/m <sup>3</sup>

##### Limestone (471-34-1)

##### United Kingdom - Occupational Exposure Limits

Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> total inhalable 4 mg/m <sup>3</sup> respirable
WEL STEL (OEL STEL)	4 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Dust production: dust mask with filter type P2. Gloves.

##### Personal protective equipment:



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type P2		

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## 9: Physical and chemical properties

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

<b>Physical state</b>	: Solid
<b>Colour</b>	: white to cream.
<b>Appearance</b>	: Powder.
<b>Odour</b>	: odourless.
<b>Odour threshold</b>	: Not available
<b>Melting point</b>	: > 1000 °C
<b>Freezing point</b>	: Not applicable
<b>Boiling point</b>	: Not available
<b>Flammability</b>	: Non flammable.
<b>Explosive limits</b>	: Not applicable
<b>Lower explosion limit</b>	: Not applicable
<b>Upper explosion limit</b>	: Not applicable
<b>Flash point</b>	: Not applicable
<b>Auto-ignition temperature</b>	: Not applicable
<b>Decomposition temperature</b>	: Not available
<b>pH</b>	: Not available
<b>pH solution</b>	: Not available
<b>Viscosity, kinematic</b>	: Not applicable
<b>Solubility</b>	: Not available
<b>Partition coefficient n-octanol/water (Log Kow)</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Vapour pressure at 50 °C</b>	: Not available
<b>Density</b>	: Not available
<b>Relative density</b>	: Not available
<b>Relative vapour density at 20 °C</b>	: Not applicable
<b>Particle size</b>	: Not available
<b>Particle size distribution</b>	: Not available
<b>Particle shape</b>	: Not available
<b>Particle aspect ratio</b>	: Not available
<b>Particle aggregation state</b>	: Not available
<b>Particle agglomeration state</b>	: Not available
<b>Particle specific surface area</b>	: Not available
<b>Particle dustiness</b>	: Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity (oral)** : Not classified  
**Acute toxicity (dermal)** : Not classified  
**Acute toxicity (inhalation)** : Not classified

#### Limestone (471-34-1)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

**Skin corrosion/irritation** : Not classified

#### Limestone (471-34-1)

pH	8.5 – 9.5
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**Serious eye damage/irritation** : Not classified

#### Limestone (471-34-1)

pH	8.5 – 9.5
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**Respiratory or skin sensitisation** : Not classified  
**Germ cell mutagenicity** : Not classified  
**Carcinogenicity** : Not classified  
**Reproductive toxicity** : Not classified  
**STOT-single exposure** : Not classified  
**STOT-repeated exposure** : Not classified

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Limestone (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**Aspiration hazard** : Not classified

Astro HS Compound	
Viscosity, kinematic	Not applicable

Limestone (471-34-1)	
Viscosity, kinematic	Not applicable

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Adverse health effects caused by endocrine disrupting properties** : Based on available data, the classification criteria are not met

### 11.2.2. Other information

No additional information available

## Section 12: Ecological information

### 12.1. Toxicity

**Ecology - general** : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Hazardous to the aquatic environment, short-term: (acute)** : Not classified

**Hazardous to the aquatic environment, short-term: (chronic)** : Not classified

**Not rapidly degradable**

Limestone (471-34-1)	
LC50 - Fish [1]	> 10000
EC50 - Crustacea [1]	> 1000
EC50 72h - Algae [1]	> 200 mg/l

### 12.2. Persistence and Degradability

Astro HS Compound	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Astro HS Compound	
Bioaccumulative potential	Not established.

Limestone (471-34-1)	
Partition coefficient n-octanol/water (Log Pow)	< 1

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>Waste treatment methods</b>	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
<b>Product/Packaging disposal recommendations</b>	:	Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

### Section 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 14.6. Special precautions for user

##### **Overland transport**

Not applicable

##### **Transport by sea**

Not applicable

##### **Air transport**

Not applicable

##### **Inland waterway transport**

Not applicable

##### **Rail transport**

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### Section 15: Regulatory information

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

##### 15.1.1. EU-Regulations

##### **REACH Annex XVII (Restriction List)**

Contains no REACH substances with Annex XVII restrictions

##### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

##### **REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

##### **PIC Regulation (Prior Informed Consent)**

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### **Ozone Regulation (1005/2009)**

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

### Safety Data Sheet (SDS) CUSTOM 2020/878

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