

**ABRO Metallic Super Seal**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) &amp; 2020/878

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product Name ABRO Metallic Super Seal  
Product code SS-822  
Unique Formula Identifier (UFI) HMJ0-N068-4000-0S31

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

Identified Use(s) Sealants  
Uses Advised Against Not known.

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

Company Identification ABRO Industries Inc  
Address of Manufacturer 3580 Blackthorn Court  
South Bend  
USA  
Postal code 46628  
Telephone: +1 574-232-8289  
Fax Not known.  
E-mail abro@abro.com  
Office hours

**Supplier**

Company Identification Granville Oil & Chemicals Ltd  
Address of Supplier 29 Goldthorpe Ind. Est.,  
Goldthorpe,  
Rotherham,  
South Yorkshire,  
Postal code S63 9BL  
Telephone: +44 (0)1709 890099  
Fax Not known.  
E-mail lab@granvilleoil.com  
Office hours 08:00 - 17:00

**1.4 Emergency telephone number**

Emergency Phone No. +44 111  
National response centre NHS Direct

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin Corr. 1 :Causes severe skin burns and eye damage.  
Skin Irrit. 2 :Causes skin irritation.  
Eye Dam. 1 :Causes serious eye damage.

**ABRO Metallic Super Seal****2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name ABRO Metallic Super Seal

Contains Silicic acid, sodium salt. sodium nitrite

Hazard Pictogram(s)



GHS05

Signal Word(s) Danger

Hazard Statement(s) H314: Causes severe skin burns and eye damage.

Precautionary Statement(s)

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE/doctor.

Unique Formula Identifier (UFI) HMJ0-N068-4000-0S31

**2.3 Other hazards**

None known.

**2.4 Additional Information**

For full text of H/P Statements see section 16.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Silicic acid, sodium salt	1344-09-8	215-687-4	10-20	Skin Irrit. 2 H315 Eye Dam. 1 H318	GHS05 GHS07
sodium nitrite	7632-00-0	231-555-9	<1	Ox. Sol. 3 H272 Acute Tox. 3 H301	GHS03 GHS06

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				Aquatic Acute 1 H400	GHS09
Copper	7440-50-8	231-159-6	<1	Aquatic Chronic 2 H411	GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
sodium nitrite	7632-00-0			Acute Tox. 3 (H301) : 100

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation	Immediately call a POISON CENTRE/doctor.
Skin Contact	Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Take off immediately all contaminated clothing. Rinse skin with water.
Eye Contact	Immediately call a POISON CENTRE/doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

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

Causes burns.

Symptoms/injuries after inhalation:	May cause cancer by inhalation.
Symptoms/injuries after skin contact:	May cause slight irritation.
Symptoms/injuries after eye contact:	May cause slight eye irritation.
Symptoms/injuries after ingestion:	May be harmful if swallowed and enters airways.

**4.3 Indication of any immediate medical attention and special treatment needed**

Specific treatment (see Medical Advice on this label). Immediately call a POISON CENTRE/doctor. Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable Extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

**5.2 Special hazards arising from the substance or mixture**

May decompose in a fire, giving off toxic and irritant vapours.

**ABRO Metallic Super Seal****5.3 Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Remove ignition sources.

**6.2 Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**6.3 Methods and material for containment and cleaning up**

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not eat, drink or smoke when using this product.

**7.2 Conditions for safe storage, including any incompatibilities**

Store locked up. Proper grounding procedures to avoid static electricity should be followed. Keep only in the original container in a cool, well-ventilated place away from: Keep container closed when not in use.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3 Specific end use(s)**

Sealants

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

## 8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note

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Copper fume (as Cu)	7440-50-8		0.2			
Copper and compounds: dust and mists (as Cu)	7440-50-8		1		2	

Region                      Source  
United Kingdom        UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark                    Notes

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls    Local exhaust ventilation, vent hoods. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment    Do not eat, drink or smoke during use.



Eye Protection                      Wear eye protection with side protection (EN166).



Skin protection                      Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection            Normally no personal respiratory protection is necessary.



Thermal hazards                    None known.

8.2.3. Environmental Exposure Controls    Avoid release to the environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	Liquid.
Colour	Copper
Odour	Odourless.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	100 - 102 ° C.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	100-102 ° C
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	11-12
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Water: >99% Solubility (Other) : Not known.

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Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	1.3 – 1.4
Relative vapour density	Not known.
Particle characteristics	Not known.

**9.2 Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

None anticipated.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

None anticipated.

**10.5 Incompatible materials**

Strong acids. Strong bases.

**10.6 Hazardous decomposition products**

Toxic fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 10101.01
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye damage.
Skin sensitization data	Calculation method : Not classified.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.

**11.2 Information on other hazards**

Not known.

**ABRO Metallic Super Seal****SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Harmful to aquatic life.

Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

**12.2 Persistence and degradability**

Not known.

**12.3 Bioaccumulative potential**

Not known.

**12.4 Mobility in soil**

Not known.

**12.5 Results of PBT and vPvB assessment**

Not known.

**12.6 Endocrine disrupting properties**

None known.

**12.7 Other adverse effects**

Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION****Not classified as hazardous for transport.****14.1 UN number or ID number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing group**

Not applicable

**14.5 Environmental hazards**

Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

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Not known

**14.7 Maritime transport in bulk according to IMO instruments**

Not known

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Copper (7440-50-8), Silicic acid, sodium salt (1344-09-8), sodium nitrite (7632-00-0)

use of certain dangerous substances, mixtures and articles

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

**National regulations**

Other Not known.

**15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)



GHS05

GHS03: GHS: Flame over circle

GHS06: GHS: Skull and crossbones



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	GHS07: GHS: Exclamation mark
	GHS09: GHS: Environment
Hazard classification	Ox. Sol. 3 : Oxidising solid, Category 3 Acute Tox. 3 : Acute toxicity, Category 3 Skin Corr. 1 : Skin corrosion/irritation, Category 1 Skin Irrit. 2 : Skin corrosion/irritation, Category 2 Eye Dam. 1 : Serious eye damage/irritation, Category 1 Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
Hazard Statement(s)	H272: May intensify fire; oxidiser. H301: Toxic if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H318: Causes serious eye damage. H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTRE/doctor. P321: Specific treatment (see Medical Advice on this label). P363: Wash contaminated clothing before reuse. P405: Store locked up. P501: Dispose of contents in accordance with local, state or national legislation.
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 CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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DNEL : Derived No Effect Level  
EC : European Community  
EINECS : European Inventory of Existing Commercial Chemical Substances  
IATA : International Air Transport Association  
IBC : Intermediate Bulk Container  
ICAO : International Civil Aviation Organization  
IMDG : International Maritime Dangerous Goods  
LTEL : Long term exposure limit  
PBT : Persistent, Bioaccumulative and Toxic  
PNEC : Predicted No Effect Concentration  
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity  
UN : United Nations  
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources  
for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

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