



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

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifier

Product Name ABRO Radiator Rust Inhibitor

Product code RI-707

CAS No. Not applicable. EC No. Not applicable. REACH Registration No. Not known.

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

Identified Use(s) Rust Inhibitor. 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

Granville Oil & Chemicals Ltd Company Identification 29 Goldthorpe Ind. Est., Address of Supplier

> 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

Contact **NHS Direct** Emergency Phone No.  $+44\ 111$ 

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Repr. 1B: May damage fertility or the unborn child.

#### 2.2 Label elements

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

Product Name ABRO Radiator Rust Inhibitor

Hazard Pictogram(s)



Signal Word(s) Danger

Hazard Statement(s) H360: May damage fertility or the unborn child.

Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

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	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
Boric acid, sodium salt,	11130-12-4	601-071-6	2.0 -4.0	Repr. 1B H360	GHS08
pentahydrate			%		

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Propane-1,2-diol total vapour and particulates (57-55-6)

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

# SECTION 4: FIRST AID MEASURES

Date of Revision: 13-12-2021



### **ABRO Radiator Rust Inhibitor**

### 4.1 Description of first aid measures

Inhalation No specific treatment is necessary since this material is not likely to be

hazardous by inhalation. If breathing is difficult, give oxygen. Remove from exposure and move to fresh air immediately. Get medical aid if cough or other

symptoms appear.

Skin Contact No specific treatment is necessary, since this material is not likely to be

hazardous. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid if

irritation develops or persists.

Eye Contact No specific treatment is necessary, since this material is not likely to be

hazardous. Flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids.

Ingestion No specific treatment is necessary, since this material is expected to be non-

hazardous. Wash mouth out with water. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person.

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

Treat symptomatically.

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

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None

# 5.2 Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, oxides of boron.

## 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use proper personal protective equipment as indicated in Section 8. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard.

#### 6.2 Environmental precautions



Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

#### 6.4 Reference to other sections

See Also Section 8, 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away

from incompatible substances.

Ambient. Storage temperature

Stable under normal conditions. Storage life

Incompatible materials None known.

7.3 Specific end use(s)

Rust Inhibitor.

### 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	LTEL (8 hr TWA	STEL	STEL	Note
		ppm)	mg/m³)	(ppm)	(mg/m³)	
Propane-1,2-diol total vapour and particulates	57-55-6	150	474			
Propane-1,2-diol particulates	57-55-6		10			
Disodium tetraborate, pentahydrate	11130-12-4		1			

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 There are no special ventilation requirements. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.





#### 8.2.2. Personal protection equipment

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



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



Respiratory protection Respirator protection is not normally required. A respiratory protection program

that meets European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state Liquid.
Colour Clear.

Odour No notable odor.

Melting point/freezing point Not known.

Boiling point or initial boiling point and Not known.

boiling range

Flammability Not known.

Lower and upper explosion limit Not known.

Flash Point Not known.

Auto-ignition temperature Not known.

Decomposition Temperature Not known.

pH 8.34 - 9.22.

Kinematic Viscosity Not known.

Solubility (Water): Not known.
Solubility (Other): Not known.

Partition coefficient n-octanol/water

(log value)

Not known.

Vapour pressure Not known.

Density and/or relative density 8.31 - 8.73 LBS/GAL at 75.0 F (23.9 C).

Relative vapour density Not known.
Particle characteristics Not known.

9.2 Other information

None.

# SECTION 10: STABILITY AND REACTIVITY

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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

Excess heat, moist air.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of boron.

## 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. Acute toxicity - Skin Contact Calculation method: Not classified. Calculation method: Not classified. Acute toxicity - Inhalation Skin corrosion/irritation Calculation method: Not classified. Serious eye damage/irritation Calculation method: Not classified. 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: May damage fertility or the unborn child.

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.

## SECTION 12: ECOLOGICAL INFORMATION

# 12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish Low toxicity to fish.

Toxicity - Algae Low toxicity to algae.

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Borax is an inorganic substance and does not biodegrade. Under environmental

conditions, borates decompose to undissociated boric acid..



12.3 Bioaccumulative potential

Bioconcentration potential is low.

12.4 Mobility in soil

Potential for mobility in soil is very high.

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. Dispose of this material and its container to hazardous or special waste collection point. 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

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 Not listed

High Concern for Authorisation





REACH: ANNEX XIV list of substances Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the Boric acid, sodium salt, pentahydrate (11130-12-4)

manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan

Not listed

(CoRAP)

Regulation (EU) N° 2019/1021 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the Not listed

European Parliament and of the Council concerning the export and import of

hazardous chemicals 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)



Hazard classification Repr. 1B: Reproductive toxicity, Category 1B

Hazard Statement(s) H360: May damage fertility or the unborn child.

Precautionary Statement(s) P201: Obtain special instructions before use.

> P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.





Acronyms

ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures

DNEL: Derived No Effect Level

EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Disclaimers Regulation (EC) No. 1272/2008 (CLP)

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