

**Rust Converter**

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	Rust Converter
Product code	0520, 1737, 1741, 1740
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)	PC14: Metal surface treatment products, including galvanic and electroplating products..
Uses Advised Against	Not known.

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

Manufacturer	
Company Identification	Granville Oil & Chemicals Ltd
Address of Manufacturer	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
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 (0)1709 890099
Contact	Granville Lab
National response centre	
Address	NHS Direct
Emergency Phone No.	+44 111

**SECTION 2: HAZARDS IDENTIFICATION**



## Rust Converter

### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3 :Flammable liquid and vapour.  
Skin Corr. 1 :Causes severe skin burns and eye damage.  
Skin Irrit. 2 :Causes skin irritation.  
Eye Dam. 1 :Causes serious eye damage.  
Eye Irrit. 2 :Causes serious eye irritation.

### 2.2 Label elements

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

Product Name Rust Converter

Hazard Pictogram(s)



GHS02



GHS05

Signal Word(s) Danger

Hazard Statement(s) H226: Flammable liquid and vapour.  
H314: Causes severe skin burns and eye damage.

Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
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.

### 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



**Rust Converter**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Haloflex 202			50-90	Skin Irrit. 2 H315 Eye Irrit. 2 H319	GHS07
propan-2-ol isopropyl alcohol isopropanol	67-63-0	200-661-7	<5	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS02 GHS07
2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve	111-76-2	203-905-0	<5	Acute Tox. 4 H302 Acute Tox. 4 H312 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 H332	GHS07
1-methoxy-2-propanol monopropylene glycol methyl ether	107-98-2	203-539-1	<1.5	Flam. Liq. 3 H226 STOT SE 3 H336	GHS02 GHS07
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	112-34-5	203-961-6	<2	Eye Irrit. 2 H319	GHS07
8-Hydroxyquinoleine Sulfate	207386-91-2		<2	Acute Tox. 4 H302	GHS07
2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4	<1	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve	111-76-2			Acute Tox. 4 (H302) : 1200.000 (15th ATP) Acute Tox. 4 (H312) : 1100.000 Acute Tox. 4 (H332) : 11.000
8-Hydroxyquinoleine Sulfate	207386-91-2			Acute Tox. 4 (H302) : 500.000

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**



## Rust Converter

### 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. If eye irritation persists: Get medical advice/attention.
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.

### 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	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

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

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

### 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. Containers must not be punctured or destroyed by burning, even when empty.

### 6.4 Reference to other sections

See Also Section 8, 13.

## SECTION 7: HANDLING AND STORAGE

**Rust Converter****7.1 Precautions for safe handling**

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges.

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

Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

**7.3 Specific end use(s)**

PC14: Metal surface treatment products, including galvanic and electroplating products..

**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
1-Methoxypropan-2-ol	107-98-2	100	375	150	560	Sk
2-Butoxyethanol	111-76-2	25	123	50	246	Sk, BMGV
Propan-2-ol	67-63-0	400	999	500	1250	
2-(2-Butoxyethoxy) ethanol	112-34-5	10	67.5	15	101.2	
2,6-Di-tert-butyl-p-cresol	128-37-0		10			

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

Remark Notes  
Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

BMGV Biological monitoring guidance values are listed in Table 2.

Biological Exposure Indices						
Substances	CAS Number	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments

**Rust Converter**

2-Butoxyethanol	111-76-2	240 mmol butoxyacetic acid/mol creatinine in urine	Post shift			
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Remark                      Notes

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

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

Normally no personal respiratory protection is necessary. Handling of larger amounts A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



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	Off-white.
Odour	Characteristic Odour.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	48.2 ° C.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	= 1.67.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Miscible. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.

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Density and/or relative density Not known.  
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**

Avoid friction, sparks, or other means of ignition.

**10.5 Incompatible materials**

Not known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**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 - 32258.06000

Acute toxicity - Skin Contact Calculation method : Not classified.  
Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 36666.67000

Acute toxicity - Inhalation Calculation method : Not classified.  
Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 366.67000

Skin corrosion/irritation Calculation method : Causes skin irritation.

Serious eye damage/irritation Calculation method : Causes serious eye irritation.

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**



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ECHA Endocrine disruptor assessment list: 128-37-0, 204-881-4 (Reason not given)

UN List of Identified Endocrine Disrupting Chemicals: 128-37-0 (Reason not given)

### 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

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

ECHA Endocrine disruptor assessment list: 128-37-0, 204-881-4 (Reason not given)

UN List of Identified Endocrine Disrupting Chemicals: 128-37-0 (Reason not given)

#### 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. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. 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



**Rust Converter****14.1 UN number or ID number**

UN No. 3470

**14.2 UN proper shipping name**

UN proper shipping name PAINT, CORROSIVE, FLAMMABLE

**14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class 8  
ADR Classification Code CF1  
Special Provisions 163 367  
Limited Quantities 1 L  
Excepted Quantities E2  
Emergency Action Code •3W  
Mixed Packing Instructions for Packages P001 IBC02

Special Packing Provisions for Packages

Mixed Packing Instructions for Packages MP15

Packing Instructions for Portable Tanks T7  
Special Provisions for Portable Tanks TP2 TP8 TP28  
Tank Code for Tanks L4BN  
Special Provisions for TanksVehicle for Tank Carriage FL  
ADR Transport Category 2  
Tunnel Restriction Code D/E

Special Provisions for Carriage - Packages

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading, Unloading and Handling  
Special Provisions for Carriage - Operation S2ADR HIN 83  
IMDG  
IMDG Class 3  
Special Provisions 163 367Limited Quantities 1 L  
Excepted Quantities E2  
Mixed Packing Instructions for Packages P001 IBC02

Special Packing Provisions for Packages

Special Packing Provisions for Packages  
Packing Instructions for Portable Tanks T7  
Special Provisions for Portable Tanks TP2 TP8 TP28

IMDG EMS

Stowage and Handling Category B SW2

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Segregation

Marine Pollutant

ICAO/IATA

IATA Proper Shipping Name PAINT, CORROSIVE, FLAMMABLE

Excepted Quantities E2

Passenger and Cargo Aircraft Limited Y840

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 0.5L

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 851

Instructions

Passenger and Cargo Aircraft Max net 1L

Qty

Cargo Aircraft Packing Instructions 855

Cargo Aircraft Max net Qty 30L

Special Provisions A72, A192

Emergency Response Guidebook (ERG) 8F

Code

Labels

Labels

8 +3

**14.4 Packing group**

Packing group II

**14.5 Environmental hazards**

Environmental hazards Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

Special precautions for user Not known.

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

No information available

**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

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

2-(2-butoxyethoxy)ethanol (DEGBE) (112-34-5), 1-methoxy-2-propanol monpropylene glycol methyl ether (107-98-2), 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve (111-76-2), 8-Hydroxyquinoleine Sulfate (207386-91-2), propan-2-ol isopropyl alcohol isopropanol (67-63-0), 2,6-di-tert-butyl-p-cresol (128-37-0), Haloflex 202 ()

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Community Rolling Action Plan (CoRAP) 2,6-di-tert-butyl-p-cresol (128-37-0)

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)



GHS02



GHS05

GHS07: GHS: Exclamation mark

GHS09: GHS: Environment

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2

Flam. Liq. 3 : Flammable liquid, Category 3

Acute Tox. 4 : Acute toxicity, Category 4

Acute Tox. 4 : Acute toxicity, Category 4

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

Eye Irrit. 2 : Serious eye damage/irritation, Category 2

Acute Tox. 4 : Acute toxicity, Category 4

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1

Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1

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Hazard Statement(s)	<p>H225: Highly flammable liquid and vapour.</p> <p>H226: Flammable liquid and vapour.</p> <p>H302: Harmful if swallowed.</p> <p>H312: Harmful in contact with skin.</p> <p>H314: Causes severe skin burns and eye damage.</p> <p>H315: Causes skin irritation.</p> <p>H318: Causes serious eye damage.</p> <p>H319: Causes serious eye irritation.</p> <p>H332: Harmful if inhaled.</p> <p>H336: May cause drowsiness or dizziness.</p> <p>H400: Very toxic to aquatic life.</p> <p>H410: Very toxic to aquatic life with long lasting effects.</p>
Precautionary Statement(s)	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233: Keep container tightly closed.</p> <p>P240: Ground and bond container and receiving equipment.</p> <p>P241: Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p>P242: Use non-sparking tools.</p> <p>P243: Take action to prevent static discharges.</p> <p>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264: Wash hands and exposed skin thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310: Immediately call a POISON CENTRE/doctor.</p> <p>P321: Specific treatment (see Medical Advice on this label).</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.</p> <p>P403+P235: Store in a well-ventilated place. Keep cool.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents in accordance with local, state or national legislation.</p>
Acronyms	<p>ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR : European Agreement concerning the International Carriage of Dangerous</p>



## Rust Converter

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

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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