

SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of
830/2015 amending EC No.
1907/2006, Commission Regulation (EU) 2019/521
amending CLP directive 1272/2008, also in
accordance with ISO 11014-1 and ANSI Z400.1

Issued: 2019-12-20

EXTRA COOL Torch Coolant

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name EXTRA COOL Torch Coolant

Article No. 7-3580

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

Product type Torch Coolant

Use Cutting and Welding Torch and System Coolant

1.3. Details of the supplier of the safety data sheet

SDS created by TDS Team

Supplier Thermal Dynamics

Street address 82 Benning Street
03784 West Lebanon
USA

Telephone +1 (603) 298-5711

1.4. Emergency telephone number

Emergency phone number Chemtrec (US & Canada) 800-424-9300 / Chemtrec (outside US & Canada) 703-527-3887

Available outside office hours No

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Danger classes Hazardous to the aquatic environment — Acute hazard category 2
Eye irritation, hazard category 2
Acute toxicity, oral, hazard category 4

Hazard phrases H302, H319, H411

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Danger codes



Signal word Warning

Hazard phrases H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

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Safety phrases

P264 Wash hands and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P501 Dispose of contents/container to by lawful and appropriate disposal method.
P330 Rinse mouth.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P273 Avoid release to the environment.
P391 Collect spillage.

2.3. Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Water	7732-18-5 231-791-2 - -	40 - 70%	-	- - -	-
Propylene Glycol	57-55-6 200-338-0 - -	15 - 40%	-	- - -	-
Benzotriazole	95-14-7 202-394-1 - -	0 - 1%	Acute Tox. 4 - oral, Eye Irrit. 2, Aquatic Chronic 2	H302, H319, H411 - -	-

Substance additional information

The exact percentage (concentration) of composition has been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a doctor.

Skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice.

Eye contact

Rinse cautiously with water for several minutes, holding the eyelids open. If eye irritation occurs, get an ophthalmologist advice

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Ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth if the person is not conscious. If you feel unwell, call a doctor.

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

Not applicable

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

Not applicable

Other

Other

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Eg. Dry chemical or foam

Unsuitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

The product is neither flammable, nor explosive.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Environmental precautions

Prevent the product from leaking into the environment and run off into drains, surface waters and groundwater.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

Not applicable

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. The following limits can be used as guidance. Unless noted, all values are for 8 hour time weighted averages (TWA).

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Water	7732-18-5 -	- -	- -	OSHA	No PEL	2017
Propylene Glycol	57-55-6 -	- -	- -	OSHA	No PEL	2017
Benzotriazole	95-14-7 202-394-1	- -	- -	OSHA	-	2017

8.2. Exposure controls

Eye / face protection No special technical protective measures are necessary.

Safety gloves Use appropriate safety gloves for the type of chemical used

Other skin protection No special technical protective measures are necessary.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Other

Other Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Engineering Controls: Showers, Eyewash stations & Ventilation systems.
Exposure guidelines : This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, physical state	Clear Pink, Liquid
Appearance, colour	Not applicable
Odour	odourless
Odour threshold	Not applicable
pH value	4.5 - 5.5
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper / lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1
Solubility	Not applicable
Water solubility	completely soluble
Partition coefficient: n-octanol / water	Propylene glycol > -1.07 @ 20 °C
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

Not applicable

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SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable

10.2. Chemical stability

Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products

None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

IN Vivo test: Propylene glycol > slightly irritating
IN vivo test : Benzotriazole (Moderately irritating)

Respiratory/skin sensitization

No data available

Germ cell mutagenicity

No data available

Genotoxicity

No data available

Carcinogenicity

No data available

Repeated dose toxicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

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LD50 Oral	Propylene glycol > 22000 mg/Kg(Rat) Benzotriazole > 560 mg/Kg(Rat)
LD50 Dermal	Propylene glycol LD50 > 2000 mg/kg (Rabbit) Benzotriazole >2000 mg/Kg(Rat)
LC50 Inhalation	Benzotriazole > 1910 mg/m ³ (rat)
Routes of exposure	No data available
Symptoms related to the physical, chemical and toxicological characteristics	No data available
Mixture versus substance information	No data available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	No data available
Interactive effects	No data available
Toxicity in case of skin contact	No data available
Absence of specific data	No data available
Toxicity in case of eye contact	No data available
Mixtures	No data available
Toxicity in case of ingestion	No data available
<i>Other</i>	
Acute effects	No data available
Long term effect	No data available
Information to doctor	No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity	Propylene glycol (Oncorhynchus mykiss) LC50 > 10000 mg/L (96 hours)Benzotriazole Oncorhynchus mykiss) LC50 = 39 mg/l (96 hours)
Acute algae toxicity	Propylene glycol : Pseudokirchneriella subcapitata EC50 > 10000 mg/L (96 hours)Benzotriazole : (freshwater algae) EC50 = 15.4 mg/l (96 hours)
Acute crustacean toxicity	Propylene glycol : Ceriodaphnia dubia) EC50 >10000mg/L(48hours) Propylene glycol : Ceriodaphnia sp. NOEC > 10000 mg/L (7 days) Benzotriazole (water flea) : EC50 = 141.6 mg/l (48 hours)
Chronical toxicity	This product contains Benzotriazole, which is classified by CLP Directive Regulation (EC) No 1272/2008 , as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

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12.2. Persistence and degradability

Persistence and degradability Propylene glycol : degradation > 80% (28 days)

12.3. Bioaccumulative potential

Bioaccumulative potential Propylene glycol : -1.07

12.4. Mobility in soil

Mobility Propylene glycol Koc < 1 (calculated)

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Other

Other Do not reuse container

SECTION 14: Transport information

14.1. UN 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 applicable

14.6. Special precautions for user

Not applicable



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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Other

Other DOT Not regulated

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2008. on waste and repealing certain Directives. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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**Other regulations, limitations
and legal regulations**

Poland Regulations:

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz 817).

The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888).

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal. Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations :

USA: This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs): Product is a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.

International Inventories:

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australian Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

15.2. Chemical safety assessment

Chemical safety assessment

No data available

Other

Other

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. ELECTRIC SHOCK can kill. ARC RAYS and SPARKS can injure eyes and burn skin.

Wear correct hand, head, eye and body protection



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SECTION 16: Other information

Changes to previous revision

This Safety Data Sheet has been revised due to modifications to Sections 1-16. Previous Revision of SDS as per Regulation - January 2018; Latest Revision of SDS as per Regulation - April 2019

References to key literature and data sources

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for Electric Welding and Cutting" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB, and to: www.esab.com

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Eye Irrit. 2 - Eye irritation, hazard category 2
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Other

Additional information

USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS. American National Standard Z49.1 Safety in Welding and Cutting, ANSI/AWS F1.5 Methods for Sampling and Analyzing Gases from Welding and Allied Processes, ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fume", 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at www.aws.org.

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169

UK: WMA Publication 236 and 237, "Hazards from Welding fume", "The arc welder at work, some general aspects of health and safety".

Germany: Germany: Accident prevention regulation BGV D1, "Welding, cutting and related processes".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should: notify its employees, agents and contractors of the information on this SDS and any product hazards/safety information. furnish this same information to each of its customers for the products

Request such customers to notify employees and customers for the same product hazards and safety information.

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