

Red & Blue Coolant SAFETY DATA SHEET

Control # 1080 date 5/29/15

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1.1	Product Name: Product Identific	ation [.]	Weldcote Blue Coolant & Weldcote Red Coolant Coolant
	<u>- Toddot domino</u>		
1.0	Product Specific		as misture and uses advised an inst
1.2 1.2.1	Relevant identified		e or mixture and uses advised against:
		<u>ruses.</u>	For welding consumables and related products.
1.2.2	Uses advised:	oplier of the safety data s	Reference the [7. Handling and storage]
1.5	Supplier:		Weldcote Metals Inc.
			842 Oak Grove Rd.
			Kings Mountain, NC 28086
	Emergency tel	ephone number:	(800) 424-9300 or (704) 739-4115
	<u>Email:</u>		info@weldcotemetals.com
CTION:	2	HAZARDS IDENTIFI	
			CATION
2.1	Classification of		
		is placed on the market in so	olid form
2.1.1 <u>(</u>		cordance with GHS-US	
	Acute Toxic	•	
	Acute Toxic Eye irritatio	•	
	Eye irritatio	n H320	
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weldcote 🌣 metals

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SECTION: 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

es: No data available

Full Text of H-phrases: see section 16

3.2 Mixtures:

The mixture contains dangerous substances:

Substance name		Product Identifier (CAS No)	% Percent	GHS-US classification
Ethylene glycol	$C_2H_6O_2$	107-21-1	10 - <25	Acute Tox 4, H302

SECTION: 4 FIRST AID MEASURES

4.1 Description of first aid measures:

First-aid measures after inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention.

<u>First-aid measures after skin contact</u>: Flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists. <u>First-aid measures after eye contact</u>: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

First-aid measures after ingestion: Do NOT induce vomiting. Get immediate medical attention.

4.2 <u>Most important symptoms and effects, both acute and delayed:</u>

Explosion hazard:

Symptoms/injuries after inhalation: Short-term (acute) overexposure to the gases, fumes, and dusts may include irritation of the eyes, lungs, nose, and throat. Some toxic gases associated with welding may cause pulmonary edema, asphyxiation, and death. Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing, or chest pain. The presence of chromium/chromate in fume can cause irritation of nasal membranes and skin. The presence of nickel compounds in fume can cause metallic taste, nausea, tightness of chest, fever, and allergic reaction. Excessive inhalation or ingestion of manganese can produce manganese poisoning. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait resembling Parkinsonism. These symptoms can become progressive and permanent if not treated. Excessive inhalation of fumes may cause "Metal Fume Fever" with Flu-like symptoms such as chills, fever, body aches, vomiting, sweating, etc.

Symptoms/injuries after skin contact:	Dusts may cause irritation.
Symptoms/injuries after eye contact:	Causes eye irritation.
Symptoms/injuries after ingestion: Not an antic	ipated route of exposure during normal product handling. May be harmful if ingested.

4.3 <u>Indication of any immediate medical attention and special treatment needed:</u> No data available.

SECTION: 5 FIREFIGHTING MEASURES 5.1 Extinguishing media: Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

 Unsuitable extinguishing media:
 No data available.

 5.2
 Special hazards arising from the substance or mixture:
 Fire may produce irritating or poisonous gases.

 Fire hazard:
 Not flammable

None knov	vn

5.3 <u>Advice for firefighters:</u> In the event of fire, wear self-contained breathing apparatus and full protective gear.



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SECTION: 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Wear appropriate personal protective equipment as specified in Section 8. Ensure adequate ventilation. For emergency responders: No data available.

- 6.2 Environmental precautions: Avoid release into the environment. Avoid dispersal of spilled material and contact with soil, ground and surface water drains and sewers.
- Methods and material for containment and cleaning up: Take up mechanically. Collect the material in labeled containers and dispose of 6.3 according to local and regional authority requirements.
- 6.4 Reference to other sections: See Section 7 for information of safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION: 7 HANDLING AND STORAGE

- 7.1 Precautions and safe handling: Welding may produce dust, fumes and gases hazardous to health. Avoid breathing dust, fumes and gases. Use adequate ventilation. Keep away from sources of ignition. Avoid contact with skin, eyes and clothing. Do not eat, drink and smoke in work areas
- 7.2 Conditions for safe storage, including and incompatibilities: Store in cool, dry and well-ventilated place. Keep away from incompatible materials. Keep away from heat and open flame.
- Specific end use(s): For welding consumables and related products. 7.3

SECTION: 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: Exposure limits were not established for this product

Ethylene glycol	(CAS No) 107-21-1	
USA ACGIH	ACGIH (TWA) (mg/m ³)	100 mg/m3
USA OSHA	OSHA PEL (TWA) (mg/m³)	100 mg/m3

8.2 Exposure controls:

Appropriate engineering controls: local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection: Wear welding gloves.

Eye protection: Wear helmet or face shield with filter lens of appropriate shade number. See ANSI/ASC Z49.1 Section 4.2. Provide protective screens and flash goggles, if necessary, to shield others.

Skin and body protection: Wear head and body protection, which help to prevent injury from radiation, sparks, flame and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the employee not to touch live electrical parts and to insulate him/herself from work and ground. Welders should not wear short sleeve shirts or short pants.

Respiratory protection: If exposure limits are exceeded or irritation is experienced. NIOSH approved respiratory protection should be worn.



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SECTION: 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state:	- liquid
Appearances:	- Clear Colorless liquid
Color:	- Clear
Odor:	- Odorless
Odor threshold:	- Not determined
pH:	- 6
Relative evaporation rate (butyl acetate = I):	- No data available
Melting point:	- (-7°C)
Freezing point:	- No data available
Initial boiling point and boiling range:	- (93°C)
Flash point:	- No data available
Self ignition temperature:	- Product is not self igniting
Decomposition temperature:	- No data available
Flammability (solid, gas):	- No data available
Vapour pressure:	- 24(MMHG)
Relative vapour density at 20. C:	- 1.025 (Air = 1)
Relative density:	- No data available
Solubility(ies)	- Fully miscible
Log Pow:	- No data available
Log Kow:	- No data available
Viscosity, kinematic:	- No data available
Viscosity, dynamic:	- No data available
Explosive properties:	- No data available
Oxidizing properties:	- No data available
Explosive limits:	- No data available

9.2 Other information: No additional information available.

SECTION: 10 STABILITY AND REACTIVITY

10.1 <u>Reactivity:</u> No additional information available.

- 10.2 Chemical stability: The product is stable under normal conditions. When using it may produce dangerous fumes and gases.
- 10.3 <u>Possibility of hazardous reactions:</u> Will not occur.
- 10.4 Conditions to avoid: None
- 10.5 Incompatible materials: None
- 10.6 <u>Hazardous decomposition products</u>: Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (i.e. paint, painting, galvanizing), the number of welders, the volume of the work area, the quality and the amount of ventilation, the position of the welders head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from the cleaning and degreasing activities).

When an electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition, and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration. Also, new compounds not in the electrodes may form. Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation of the materials shown in Section 3, plus those from the base metal coating, etc., as noted above. Reasonable expected fume constituents of this product would include: Complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen Oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Fume limit for chromium, nickel and or manganese may be reached before limit of 5 mg/m3 of general welding fumes is reached.

Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS FI.!, FI.3 and FI.5, available from the American Welding Society, 550 N.W. Lejeune Road, Miami, FL 33126.



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SECTION: 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity: Harmful if swallowed

Substance name	CAS number	LD5O oral rat (mg/kg)	ATE (oral) (mg/kg)	Comments
Ethylene glycol	107-21-1	4700 mg/kg	10,626 mg/kg	
Skin corrosion/irritation:		May cause skin irritation		
Serious eye damage/irritation:		May cause eye irritation		
Respiratory or skin sensitization:		May cause an allergic skin reaction.		
Germ cell mutagenicity:		May cause damage to organs		
Carcinogenicity:		Not classified		
Reproductive toxicity		Not classified		
Specific target organ toxicity (single exposure):		Not classified		
Specific target organ toxicity (repeated exposure):		Causes damage to organs through prolor	nged or repeated exposure	

SECTION: 12 ECOLOGICAL INFORMATION

12.1 Toxicity:

Ecology - general: No data available.

Ethylene glycol	(CAS No) 107-21-1
LC50 fishes 1	18,500 mg/l (Exposure time: 96 h - species: Oncorhynchus mykiss)
EC50 Daphnia 1	74,000 mg/l (Exposure time: 24 h - species: Daphnia magna [static])
EC50 other aquatic organisms 1	10,000 mg/l (Exposure time: 96 h - species: Leuciscus idus [static])
LC50 fish 2	32,000 mg/l (Exposure time: 96 h - species: Pimephales promelas ([semi-static])

12.2 Persistence and degradability: No additional information available.

12.3 Bioaccumulative potential: No additional information available.

- 12.4 <u>Mobility in soil:</u> No additional information available.
- 12.5 <u>Other adverse effects</u>: No additional information available.

SECTION: 13 DISPOSAL CONSIDERATIONS

13.1 <u>Waste treatment methods:</u> Dispose of in accordance with local and national regulations.

Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION: 14 TRANSPORT INFORMATION

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN Number: Not a dangerous good in sense of transport

- regulations
 - 14.2 <u>UN proper shipping name:</u> Not applicable

SECTION: 15 REGULATORY INFORMATION

15.1 US Federal Regulations:



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Ethylene glycol	(CAS No) 107-21-1	
Listed on the United States TSCA (T	oxic Substances Control Act) Inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Repor	ting 1.0% (dust or fume only)	

15.2 US State Regulations:

Ethylene glycol	(CAS No) 1	07-21-1	_	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S. California - Proposition 65 - Reproductive Toxicity - Female	U.S. California - Proposition 65 - Reproductive Toxicity - Male	No Significance risk level (NSRL)
Yes	Yes	Yes	Yes	

Ethylene glycol U.S. - Massachusetts - Right To Know List

U.S. - Minnesota - Hazardous Substance List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

(CAS No) 107-21-1

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SECTION: 16 OTHER INFORMATION

Full text of H-phrases:

Carc. 1A	Carcinogenicity, Category 1A	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H351	Suspected of causing cancer	
H373	May cause damage to organs through prolonged or repeated exposure.	



NFPA health hazard:

- NFPA fire hazard:
- MFPA reactivity:
- $2-\ensuremath{\mathsf{Exposure}}$ could cause irritation but only minor residual injury even if no treatment is given.
- 0 Materials that will not burn.
- 0- Normally stable, even under fire exposure conditions, and are not reactive with water

HMIS III Rating

- Health:2 Moderate HazardFlammability:0 Minimal Hazard
- Physical: 1 Moderate Hazard
- We believe that the information contained herein is believed to be true and accurate as of the date of this SOS. All statements or suggestions are made without any warranty, expressed or implied, regarding the accuracy of the information, the hazard connected with the use of this material or the results to be obtained for use thereof. As the condition or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. It is the user's obligation to determine the conditions of safe use of these products.
- All chemical products can in fact present unknown risks to health, safety and / or the environment, even in relation to the different operating conditions, and they must therefore be used with care. For this reason we cannot guarantee that the risk described in this form are the only foreseeable risks. The user must therefore satisfy himself as to the particular conditions under which it is intended to be use in. Moreover, it must be noted that the user is obliged to comply with all the legislative, administrative and regulatory provisions regarding the product and its use in terms of occupational hygiene and safety, and environmental protection, apart from the information given in the form, given purely as guidance.

- <u>Technical Department</u>