# SAFFIRE BLUE inc.

## SAFETY DATA SHEET

## 1. Identification

Product identifier	AMPHOSOL CG
Other means of identification	(Cocamidopropyl Betaine)
Product code	0211
Recommended use	Surfactant
Recommended restrictions	For industrial use only.
Manufacturer/Importer/Supplier/I	Distributor information
Manufacturer Distributed By	Saffire Blue inc 1444 Bell Mill Side Road Tillsonburg, ON N4G4G9 Canada

Emergency phone number	Chemtrec	1-800-424-9300
	Chemtrec Int'l	+1 703-527-3887

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Hazard statementCauses serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.PreventionAvoid release to the environment. Wear eye/face protection.ResponseIf in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.StorageStore away from incompatible materials.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental informationNone.	Signal word	Danger
ResponseIf in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.StorageStore away from incompatible materials.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.	Hazard statement	Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
StorageStore away from incompatible materials.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.	Prevention	Avoid release to the environment. Wear eye/face protection.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.   Hazard(s) not otherwise None known.   classified (HNOC) None known.	Response	
Hazard(s) not otherwise None known. classified (HNOC)	Storage	Store away from incompatible materials.
classified (HNOC)	Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information None.		None known.
	Supplemental information	None.

## 3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	63 - < 66
Cocamidopropyl betaine		61789-40-0	29 - < 31
Sodium chloride		7647-14-5	4 - < 6
Glycerin		56-81-5	0 - < 3

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists. Remove and isolate contaminated clothing and shoes. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### **Occupational exposure limits** US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Form Components Туре Glycerin (CAS 56-81-5) PEL 5 mg/m3 Respirable fraction. 15 mg/m3 Total dust. **Biological limit values**

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash facilities and emergency shower must be available when handling this product.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.	
Hand protection	Wear protective gloves.	
Skin protection		
Other	Wear appropriate chemical resistant clothing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

## 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	4.0000 - 6.0000 (as is)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	> 201 °F (> 93.9 °C) PMCC
Evaporation rate	Estimated slower than ethyl ether.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - upper (%)	NOT APPLICABLE.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not Determined or Unknown
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	14 cps @ 25 C
Other information	
Percent volatile	63 - 67 %
Pour point	26.6 °F (-3 °C)
Specific gravity	1.0576
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Strong oxidizing agents.

## 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results	
AMPHOSOL CG			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral			
LD50	Rat	2335 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	1		
<b>Respiratory sensitization</b>	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
US. OSHA Specifically Regu	lated Substances (29 CFR 1910	.1001-1050)	
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not applicable.		
Specific target organ toxicity - repeated exposure	Not applicable.		
Aspiration hazard	Not applicable.		
Chronic effects	Prolonged inhalation may be harmful.		
12 Ecological information			

## 12. Ecological information

otoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Product		Species	Test Results
AMPHOSOL CG			
Acute			
Algae	EC50	Algae	2.4 mg/l, 72 hours
Crustacea	EC50	Crustacea	1.9 mg/l, 48 hours
Fish	LC50	Fish	1.75 - 10 mg/l, 96 hours
Components		Species	Test Results
Cocamidopropyl betair	ne (CAS 61789-40-	0)	
Acute			
Crustacea	EC50	Crustacea	1.9 mg/l, 48 hours
Fish	LC50	Fish	0.7 - 7 mg/l, 96 hours

Components		Species	Test Results
Glycerin (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Persistence and degradability	Readily b	iodegradable.	
Bioaccumulative potential	No data a	vailable.	
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	•		······································

Disposal instructions	This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

## Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No

	Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.
Formaldehyde		50-00-0	< 0.1
Other federal regulations			
Clean Air Act (CAA) Section Not regulated.	n 112 Hazardous Air Pollu	tants (HAPs) List	
Clean Air Act (CAA) Section	n 112(r) Accidental Releas	e Prevention (40 CFR	8 68.130)
Not regulated.		,	
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US - Pennsylvania RTK - Ha	azardous Substances: Lis	ted substance	
Glycerin (CAS 56-81-5)			

#### **US. Massachusetts RTK - Substance List**

Dichloroacetic acid (CAS 79-43-6)

Glycerin (CAS 56-81-5)

## US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Dichloroacetic acid (CAS 79-43-6)	Listed: May 1, 1996	
Formaldehyde (CAS 50-00-0)	Listed: January 1, 1988	
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin		

Listed: August 7, 2009

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

NFPA ratings	
Version #	01
Revision date	08-28-2014
Issue date	08-28-2014

Disclaimer

Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantibility or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.

Product and Company Identification: Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Regulatory Information: Canada Index: United States HazReg Data: North America GHS: Classification