

# **Safety Data Sheet**

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name CHEMGUARD 3x6 AR-AFFF (C364)

# 1. Identification

1.1. Product Identifier

Product name CHEMGUARD 3x6 AR-AFFF (C364)

1.2. Other means of identification

Product code 770822 Synonyms None

Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent.

Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products

One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411

Contact point Product Stewardship at 1-715-735-7411

E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

# 2. Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation - Category 2A

#### 2.2. Label Elements

# Signal Word

WARNING

#### **Hazard Statements**

Causes serious eye irritation



#### **Precautionary Statements**

# Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### 2.3. Hazards Not Otherwise Classified (HNOC)

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Not Applicable.

#### 2.4. Other Information

Unknown Acute Toxicity

12.0826% of the mixture consists of ingredient(s) of unknown toxicity

# 3. Composition/information on Ingredients

#### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	5 - 10
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5

### 4. First aid measures

#### 4.1. Description of first aid measures

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately

if symptoms occur.).

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison

control center or physician immediately.

# 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms** No information available.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

#### 5. Fire-fighting measures

# 5.1. Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# 5.2. Unsuitable Extinguishing Media

None.

#### 5.3. Specific Hazards Arising from the Chemical

None known.

**Hazardous Combustion** 

**Products** 

Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur



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3X0 AR-AFFF (C304)

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5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

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

# 6. Accidental release measures

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

Personal Precautions Ensure adequate ventilation, especially in confined areas.

6.2. Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers,

basements or confined areas. See Section 12 for additional Ecological Information.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

# 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and

safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

# 8. Exposure Controls/Personal Protection

#### 8.1. Control Parameters

Exposure guidelines

Exposure guidelines				
Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol	TWA: 10 ppm inhalable	-	-	-
112-34-5	fraction and vapor			

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

# 8.2. Appropriate Engineering Controls



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#### 8.3. Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Tight sealing safety goggles. **Eye/Face Protection** 

**Skin and Body Protection** Wear protective gloves and protective clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection** 

> 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.

Ventilation Use local exhaust or general dilution ventilation to control exposure with applicable limits

#### 8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

# 9.1. Information on basic physical and chemical properties

**Physical State** Liquid

Odor Characteristic Color Yellow

**Odor Threshold** No data available

Values Remarks • Method Property

Melting point/freezing point No data available Boiling point / boiling range No data available Flash Point No data available No data available **Evaporation Rate** Flammability (solid, gas) No data available

Flammability limit in air

Upper flammability limit: No data available Lower flammability limit: No data available No data available **Vapor Pressure Vapor Density** No data available Specific gravity No data available Water Solubility No data available Solubility in Other Solvents No data available No data available **Partition coefficient Autoignition Temperature** No data available **Decomposition Temperature** No data available Kinematic viscosity No data available

1.00 Density

# 10. Stability and Reactivity

#### 10.1. Chemical Stability

Stable under recommended storage conditions.

# 10.2. Reactivity

No data available



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# 10.3. Possibility of hazardous reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

# 11. Toxicological Information

# 11.1. Information on Likely Routes of Exposure

#### **Product information**

No data available. Inhalation

**Eye Contact** Severely irritating to eyes.

Skin contact No data available.

Ingestion No data available.

### **Component Information**

**Acute Toxicity** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg ( Rabbit )	-
112-34-5			

### 11.2. Information on Toxicological Effects

No information available. **Symptoms** 

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Severely irritating to eyes. No information available. Carcinogenicity No information available. **Reproductive Toxicity** No information available. **STOT - Single Exposure** STOT - Repeated Exposure No information available. **Aspiration Hazard** No information available.

# 11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 31439 mg/kg 33954 mg/kg ATEmix (dermal)

# 12. Ecological Information



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#### 12.1. Ecotoxicity

0.009% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
n-Butanol 71-36-3	EC50 (96h) > 500 mg/L Desmodesmus subspicatus EC50 (72h) > 500 mg/L Desmodesmus subspicatus	static 1730 - 1910 mg/L Pimephales promelas LC50 (96h) static 100000 - 500000 µg/L Lepomis macrochirus LC50 (96h) flow-through = 1740 mg/L Pimephales promelas	EC50 (48h) Static 1897 - 2072 mg/L Daphnia magna EC50 (48h) = 1983 mg/L Daphnia magna
Polyethylene Glycol 25322-68-3	-	LC50 (24h) > 5000 mg/L Carassius auratus	-
Sodium Hydrogen Carbonate 144-55-8	EC50 (120h) = 650 mg/L Nitzschia linearis	LC50 (96h) static 8250 - 9000 mg/L Lepomis macrochirus	EC50 (48h) = 2350 mg/L Daphnia magna
Hexamethylenetetramine 100-97-0	-	LC50 (96h) flow-through 44600 - 55600 mg/L Pimephales promelas	EC50 (48h) 29868 - 43390 mg/L Daphnia magna
Methylene chloride 75-09-2	EC50 (72h) > 500 mg/L Pseudokirchneriella subcapitata EC50 (96h) > 500 mg/L Pseudokirchneriella subcapitata	flow-through = 193 mg/L Lepomis macrochirus LC50 (96h) static 262 - 855 mg/L Pimephales promelas LC50 (96h) flow-through 140.8 - 277.8 mg/L Pimephales promelas	EC50 (48h) Static 1532 - 1847 mg/L Daphnia magna EC50 (48h) = 190 mg/L Daphnia magna
1,3-Dichloropropene 542-75-6	EC50 (96h) 2.45 - 6.45 mg/L Pseudokirchneriella subcapitata EC50 (72h) 3.12 - 10.5 mg/L Pseudokirchneriella subcapitata	LC50 (96h) semi-static = 4.5 mg/L	EC50 (48h) Static 0.063 - 0.129 mg/L Daphnia magna EC50 (48h) = 0.09 mg/L Daphnia magna

# 12.2. Persistence and Degradability

Chemical Oxygen Demand (mg/L)

 Concentrate
 250,000

 3% Solution
 7,300

 6% Solution
 14,000

Concentrate Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day) 50000 %BOD/COD 20 Biological Oxygen Demand (10 Day) 150000 %BOD/COD 60 Biological Oxygen Demand (15 Day) 160000 %BOD/COD 64 Biological Oxygen Demand (20 Day) 180000 %BOD/COD 72

# 3% Solution Biological Oxygen Demand (mg/L)



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Biological Oxygen Demand (5 Day)	1300
%BOD/COD	17.81
Biological Oxygen Demand (10 Day)	4300
%BOD/COD	58.90
Biological Oxygen Demand (15 Day)	4600
%BOD/COD	63.01
Biological Oxygen Demand (20 Day)	5100
%BOD/COD	69.86

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# 6% Solution Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	2800
%BOD/COD	20
Biological Oxygen Demand (10 Day)	8800
%BOD/COD	62.86
Biological Oxygen Demand (15 Day)	9600
%BOD/COD	68.57
Biological Oxygen Demand (20 Day)	11000
%BOD/COD	78.57

# 12.3. Bioaccumulation

No information available.

# 12.4. Other Adverse Effects

No information available

# 13. Disposal Considerations

# 13.1. Waste Treatment Methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Do not reuse container.

# 14. Transport Information

DOT	NOT REGULATED
<u>TDG</u>	NOT REGULATED
MEX	NOT REGULATED
ICAO (air)	NOT REGULATED
IATA	NOT REGULATED
<u>IMDG</u>	NOT REGULATED

# 15. Regulatory Information

# 15.1. International Inventories

TSCA	Complies
DSL/NDSL	Complies
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply



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PICCS Does not comply AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0
SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# 15.3. US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65	
Methylene chloride - 75-09-2	Carcinogen	
1,3-Dichloropropene - 542-75-6	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol	X	-	X
112-34-5			
Hexamethylenetetramine	X	-	-
100-97-0			
Methylene chloride	X	X	X
75-09-2			
1,3-Dichloropropene	X	X	X
542-75-6			



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

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NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and chemical

properties -

Health Hazards 1 Flammability 0 Physical Hazards 0 Personal Protection X

Revision date 07-Feb-2018

Revision note SDS sections updated, 12.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**