

# SAFETY DATA SHEET

Issue Date 25-Mar-2015	Revision Date 25-Mar-2015	Version 1
<b>1. IDENTIFICATION OF THE</b>	SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDER	TAKING
<u>Product identifier</u> Product Name	CS-609	
<u>Other means of identification</u> SDS Code Synonyms	016090 None	
<u>Recommended use of the chemica</u> Recommended Use Uses advised against	<u>I and restrictions on use</u> Lubricant. Release Agent. Consumer use	
Details of the supplier of the safety Supplier Address Crystal Inc PMC 601 W 8th St Lansdale, PA 19446 USA	<u>/ data sheet</u> Manufacturer Address Crystal Inc PMC 601 W 8th St Lansdale, PA 19446 USA	
Emergency telephone number Company Phone Number 24 Hour Emergency Phone Numbe Emergency Telephone	Crystal, Inc PMC Customer Service: 215-368-1661 Crystal, Inc PMC Customer Service: 1-800-525-3842 r CHEMTREC: 1-800-424-9300 Chemtrec [INT]: +1-703-527-3887	
2. HAZARDS IDENTIFICATION		
<b>Classification</b>		
OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)		

Serious eye damage/eye irritation Category 2A

# Label elements

handling Wear eye/face protection

Emergency Overview

 Warning

 Hazard statements

 Causes serious eye irritation

 Image: Cause serious eye irritatirrit

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

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.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink 1 or 2 glasses of water. Get medical advice/attention if you feel unwell.

#### Hazards not otherwise classified (HNOC)

**Other Information** 

Harmful to aquatic life with long lasting effects. Harmful to aquatic life. Unknown Acute Toxicity 26.936% of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature** 

aqueous solution.

Chemical Name	CAS No	Weight-%	Trade Secret
Coconut Fatty Acids, Potassium Salt	61789-30-8	25-30	*
Glycerol	56-81-5	<3	*
EDTA tetrasodium salt	64-02-8	<3	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. (Get medical attention immediately if irritation persists.).	
Skin Contact	Wash skin with soap and water. (Get medical attention immediately if symptoms occur.).	
Inhalation	Remove to fresh air. (Get medical attention immediately if symptoms occur.).	
Ingestion	Clean mouth with water and drink afterwards plenty of water. (Get medical attention immediately if symptoms occur.).	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# **5. FIRE-FIGHTING MEASURES**

<u>Suitable extinguishing media</u> Water spray (fog), Carbon dioxide (CO2), Foam, Dry chemical, ABC-powder

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire. Do not use straight streams.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion productsCarbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

#### Explosion data

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

#### 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

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containme	nt and cleaning up
Methods for cleaning up	Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

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

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

Strong oxidizing agents.

Incompatible materials

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure Guidelines Exposure limits are listed below, if they exist.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Glycerol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-	-
56-81-5		particulate		
		TWA: 5 mg/m <sup>3</sup> mist,		
		respirable fraction		
		(vacated) TWA: 10 mg/m <sup>3</sup>		
		mist, total particulate		
		(vacated) TWA: 5 mg/m <sup>3</sup>		
		mist, respirable fraction		
	N/ / LP %			

**Other Information** 

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

# Appropriate engineering controls

#### Engineering Controls

Showers, Eyewash stations, Ventilation systems.

# Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear protective gloves and protective clothing.	
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.	
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Wash face, hands and any exposed skin thoroughly after handling. Use personal protective equipment as required.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	liquid No information available yellow-orange	Odor Odor threshold	Slight characteristic No information available
Property	Values	Remarks • Method	
рН	No information available		
Melting point/freezing point		Not Applicable	
Boiling point / boiling range	100 °C / 212 °F		
Flash point	> 100 °C / > 212 °F	Not Applicable	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Specific Gravity	No information available		
Water solubility	Miscible in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information			
Softening point Molecular weight VOC Content (%) Density Bulk density	No information available No information available 2.6362 1.02 g/cm3 @ 25C No information available		
-			

# **10. STABILITY AND REACTIVITY**

# **Reactivity**

No known effects under normal use conditions.

### Chemical stability Stable.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

None known.

#### Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	f exposure		
Product Information	No data available.		
Inhalation	Inhalation of vapors in high	o concentration may cause irritation	on of respiratory system.
Eye contact	Avoid contact with eyes. Irritating to eyes.		
Skin Contact	Prolonged contact may cause redness and irritation.		
Ingestion	No data available.		
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	31000 mg/kg (Rat)	> 10 g/kg ( Rabbit )	

#### Information on toxicological effects

#### Symptoms

No information available.

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

Sensitization Germ cell mutagenicity Carcinogenicity	No information available. No information available. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	No information available.
STOT - single exposure	No information available
STOT - repeated exposure	No information available.
Target Organ Effects	Eyes, kidney, Respiratory system, Skin.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

 Unknown Acute Toxicity
 26.936% of the mixture consists of ingredient(s) of unknown toxicity

 The following values are calculated based on chapter 3.1 of the GHS document .
 ATEmix (oral)

 ATEmix (inhalation-dust/mist)
 310.4 mg/l

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

27.0234% of the mixture consists of components(s) of unknown hazards to the aquatic environment

# 016090 : CS-609

# Revision Date 25-Mar-2015

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol 56-81-5		51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static		500 mg/L 24 h EC50 D. magna
EDTA tetrasodium salt 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Glycerol 56-81-5	-1.76

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

# 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. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
<u>TDG</u>	Not regulated
IATA	Not regulated.
IMDG	Not regulated

# 15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

# **International Inventories**

EINECS/ELINCS	Complies or Exempt	
TSCA	Complies	
AICS	Complies	
DSL/NDSL	Complies	
ENCS	Does not comply	
KECL	Complies	
PICCS	Complies	
IECSC	Complies	

# NZIoC

Does not comply

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **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 NZIOC - New Zealand Inventory of Chemicals

# **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

SARA 311/312	Hazard	Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

# **CERCLA**

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

# **US State Regulations**

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycerol	Х	X	Х
56-81-5			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X
Prepared By	PMC Group			
Issue Date	25-Mar-2015			
Revision Date	25-Mar-20	015		
Revision Note No information available				

Disclaimer The information provided in this Material 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**