Safety Data Sheet: JLX-32 ADVANCED

Supercedes Date: 11/04/2013 **Issuing Date:** 05/14/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: JLX-32 ADVANCED
Recommended use Flocculating agent
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.

BOX 152170
IRVING, TX 75015

Product Code: 0402
Chemical nature Aqueous solution
Emergency Telephone

CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Red **Physical state** Liquid **Odor** Alcoholic

GHS Classification

Physical Hazards
None

Health Hazard

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P260 - Do not breathe mist
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332 + P313 - If skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms, call a physician.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P308 + P313 - IF exposed or concerned, get medical attention
P501 - Dispose of contents and container in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Alcohols, C9-11, ethoxylated	68439-46-3	15-40
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl]dimetyl,chlorides	68956-79-6	10-30

Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	10-30
Hexylene glycol	107-41-5	1-5
Ethanol	64-17-5	1-5

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

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least least 15 minutes. Get medical attention immediately.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point > 205 °F / > 96 °C **Method** Tag closed cup

Flammability Limits in Air %: Mixture. **Upper:** 7.4 **Lower:** 1.3

Suitable Extinguishing Media

Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

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

NFPA	**Health** 3	**Flammability** 1	**Instability** 0
HMIS -	**Health** 3	**Flammability** 1	**Physical Hazard** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe mist.

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature	**Minimum**	36 °F / 2 °C		**Maximum**	100 °F / 38 °C		
Storage Conditions	**Indoor**	X	**Outdoor**	**Heated**		**Refrigerated**	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Hexylene glycol	TWA: 25 ppm vapor fraction STEL: 50 ppm STEL: 10 mg/m^3	No data available	Ceiling: 25 ppm Ceiling: 125 mg/m^3
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3	3300 ppm TWA: 1000 ppm TWA: 1900 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	**Viscosity**	Slight viscous
Color	Red	**Odor**	Alcoholic
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	7.9	**Specific Gravity**	0.972
Evaporation Rate	0.23 (Butyl acetate=1)	**Percent Volatile (Volume)**	0
VOC Content (%)	1.83	**VOC Content (g/L)**	17.76
Vapor pressure	10.0957 mmHg @ 70°F	**Vapor Density**	0.7 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No information available
Boiling Point/Range	234 °F / 112 °C	**Flammability (solid, gas)**	No data available
Flash Point	> 205 °F / > 96 °C	**Method**	Tag closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	**Upper:** 7.4 **Lower:** 1.3	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known.
Incompatible Products	Strong oxidizing agents, Acids, Amines, Light and/or alkaline metals.
Decomposition Temperature	No information available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Ammonia, Sulfur oxides, Hydrocarbons, Aldehydes.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information — No toxicity data available

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

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Skin contact, Skin Absorption.
Acute Effects:	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Chronic Toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs. Contains a known or suspected reproductive toxin.
Target Organ Effects:	Blood, Central nervous system, Liver, Reproductive System, Respiratory system, Immune system.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders, Liver disorders, Neurological disorders, Blood disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Alcohols, C9-11, ethoxylated 68439-46-3	= 1400 mg/kg (Rat)	> 2 g/kg (Rabbit)	No data available	No data available	No data available
Alkyl dimethyl benzyl ammo ammonium chloride (C12-18) 68391-01-5	430 mg/kg (Rat)	= 2300 mg/kg (Rabbit) = 1420 mg/kg (Rat)	No data available	No data available	No data available
Hexylene glycol 107-41-5	= 3700 mg/kg (Rat)	= 12300 mg/kg (Rabbit) = 8560 µL/kg (Rabbit)	> 310 mg/m^3 (Rat) 1 h	No data available	No data available
Ethanol 64-17-5	= 7060 mg/kg (Rat)	no data available	= 124.7 mg/L (Rat) 4 h	No data available	No data available

Chronic Toxicity

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Hexylene glycol 107-41-5	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system
Ethanol 64-17-5	No data available	No data available	yes	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system; Reproductive System; Liver

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA	Other
Ethanol 64-17-5	A3	Group 1	Not applicable	X	Not applicable

(1) IARC classification for Ethyl alcohol (Ethanol) is intended for use in alcoholic beverage use only. This product is not intended for this use.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Alkyl dimethyl benzyl ammonium chloride (C12-18)	No information available.	LC50 0.823 - 1.61 mg/L Oncorhynchus mykiss 96 h LC50 = 2.4 mg/L Oryzias latipes 96 h LC50 0.223 - 0.46 mg/L Lepomis macrochirus 96 h LC50 = 1.3 mg/L Poecilia reticulata 96 h	No information available	No information available.	N/A
Hexylene glycol	No information available.	LC50 10500 - 11000 mg/L Pimephales promelas 96 h LC50 = 10000 mg/L Lepomis macrochirus 96 h LC50 = 8690 mg/L Pimephales promelas 96 h LC50 = 10700 mg/L Pimephales promelas 96 h	EC50 = 3038 mg/L 5 min	2700 - 3700: 48 h Daphnia magna mg/L EC50	0.13986
Ethanol	No information available.	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50	-0.32

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Corrosive liquids, n.o.s.
Hazard Class 8
UN-No UN1760
Packing Group III
Description UN1760, Corrosive liquids, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Alkyl dimethyl ethyl benzyl ammonium chloride), 8, PG III

TDG

Proper shipping name	Corrosive liquid, n.o.s.
Hazard Class	8
UN-No	UN1760
Packing Group	III
Description	UN1760, Corrosive liquids, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Alkyl dimethyl ethyl benzyl ammonium chloride), 8, PG III

ICAO

UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Shipping Description	UN1760, Corrosive liquids, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Alkyl dimethyl ethyl benzyl ammonium chloride), 8, PG III

IATA

UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
ERG-Code	8L
Shipping Description	UN1760, Corrosive liquids, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Alkyl dimethyl ethyl benzyl ammonium chloride), 8, PG III

IMDG/IMO

UN proper shipping name	Corrosive liquid, n.o.s.
Hazard Class	8
UN Number	UN1760
Packing Group	III
EmS No.	F-A, S-B
Description	UN1760, Corrosive liquids, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Alkyl dimethyl ethyl benzyl ammonium chloride), 8, PG III

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

16. OTHER INFORMATION

Prepared By	Kim Franklin
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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