



SAFETY DATA SHEET

SECTION 1

IDENTIFICATION

Company Name Regal Chemical Company
Address 600 Branch Dr.
City, State, Zipcode Alpharetta, GA 30004
Phone Numbers 1(800)621-5208 or 1(770)475-4837
Website www.regalchem.com

24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)
1-800-424-9300

Poison Control Center (USA)
1-800-222-1212

Product Identity Tension-Aid Flowable
Reference/Item Number
Intended Use See technical data sheet.
Application Method See technical data sheet.

SECTION 2

HAZARD(S) IDENTIFICATION

Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:

[SKIN IRRITANT 3]:

H316: Causes mild skin irritation.

[ACUTE TOX. 5]:

H313: May be harmful in contact with skin.

[PREVENTION]:

P264: Wash thoroughly after handling.

P280: Wear protective gloves/eye/face protection.

[RESPONSE]:

P303+312: IF ON SKIN: Call a poison center or doctor/physician if you feel unwell.

P332+313: If skin irritation occurs, get medical advice/attention.

[STORAGE]:

P403+235: Store in a well-ventilated place. Keep cool.

[DISPOSAL]:

P501: Dispose of contents/container in accordance with local/national regulations.

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)



WARNING

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

This product is labeled with the following GHS classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and the ingredients and mixture percentages are being withheld as confidential business information.

Ingredient/Chemical Designations	Weight %	CAS Number	GHS Classification	Notes
Proprietary surfactant blend	100	Proprietary	Acute Tox. 5; H313 / Skin Irrit. 3; H316	[1] [2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

H313: May be harmful in contact with skin.

H316: Causes mild skin irritation.

SECTION 4

FIRST AID MEASURES

[DESCRIPTIONS]:

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes: Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

[MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED]:

Overview: No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 for further details.

Skin: May be harmful in contact with skin. Causes mild skin irritation.

SECTION 5**FIRE FIGHTING MEASURES**

Extinguishing Media: Recommended extinguishing media: alcohol resistant foam, CO₂, powder, water spray. Do not use water jet.

Special Hazards: Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon as well as smoke and fume.

Advice For Firefighters: Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel

ERG Guide No. ----

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures:

Remove sources of ignitions, do not turn lights, or unprotected electrical equipment, on or off. In case of a major spill, or spillage in a confined space, evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit (LEL) before re-entering.

Environmental Precautions: Do not allow spills to enter drains or water courses.

Methods and Material For Containment and Cleaning Up:

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials (e.g. sand/earth/vermiculite). Place in closed containers outside buildings and dispose of according to the Waste Regulations (see Section 13.) Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or water courses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams, or lakes, the Environmental Protection Agency should also be informed.

SECTION 7**HANDLING AND STORAGE**

Precautions For Safe Handling:

Do not get in eyes on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated. See Section 2 for further details [PREVENTION].

Conditions For Safe Storage: Store in tightly container in dry, well-ventilated area away from excessive heat and incompatibles. See Section 2 for further details [STORAGE].

Incompatible Materials: Oxidizing agents. See Section 2 for further details [STORAGE].

Specific End Use(s): See technical data sheet.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Data: Ingredient(s) with established limits for exposure under OSHA, ACGIH and/or IARC are listed below:

CAS No.	Ingestion	Source	Value
0000111-76-2	2-butoxy-ethanol	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA 20 ppm Revised 2003
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]

Carcinogen Data: This product contains no ingredients (at greater than 0.1%) that are suspected of being or known to be a carcinogen under OSHA, NTP or IARC.

[EXPOSURE CONTROLS]:

Respiratory: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes: Wear safety eyewear (e.g. safety spectacles/goggles/visors) to protect against the splash of liquids.

Skin: Overalls, which cover the body, arms, and legs, should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates, and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

Other Work Practices: See technical data sheet. See Section 2 for further details [PREVENTION].

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Slightly hazy liquid

Upper Flammability Limits: Upper Explosive Limit: Not measured

Odor: Bland

Lower Flammability Limits: Lower Explosive Limit: Not measured

Odor Threshold: Not measured

Vapor Pressure (Pa): Not measured

pH: 7.0-8.5

Vapor Density: Heavier than air

Melting/Freezing Points (°C): Not measured

Solubility in Water: Soluble

Initial Boiling Point/Range (°C): No Established Limit (C) / No Established Limit (F)

Partition Co-efficient n-octanol/water (Log Kow): Not measured

Flash Point: >93°C / >200°F SETA Closed Cup (SCC)

Auto-Ignition Temperature (°C): Not measured

Evaporation Rate (Ether=1): Not measured

Decomposition Temperature: Not measured

Flammability (Solid, Gas): Not applicable

Viscosity (cSt): Not measured

Specific Gravity @ 20°C 1.00

VOC %: Not measured

Other Information: No other relevant information.

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Not chemically reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Hazardous Reactions: Hazardous reactions not anticipated.

Conditions To Avoid: Extreme heat, open flame, incompatibles.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Prod.: Not anticipated under normal conditions of use.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Proprietary blend	>5,000.00/Category NA	2,500.00/Category 5	No data available

Category --: Item: Acute Toxicity (mouth) / Hazard: Not applicable.

Category 5: Item: Acute Toxicity (skin) / Hazard: May be harmful in contact with skin.

Category --: Item: Acute Toxicity (inhalation) / Hazard: Harmful if inhaled.

Category 3: Item: Skin Corrosion/Irritation / Hazard: Causes mild skin irritation.

Category --: Item: Eye Damage/Irritation / Hazard: Not applicable.

Category --: Item: Sensitization (respiratory) / Hazard: Not applicable.

Category --: Item: Sensitization (skin) / Hazard: Not applicable.

Category --: Item: Germ Toxicity / Hazard: Not applicable.

Category --: Item: Carcinogenicity / Hazard: Not applicable.

Category --: Item: Reproductive Toxicity / Hazard: Not applicable.

Category --: Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: Not applicable.

Category --: Item: Specific Target Organ Systemic Toxicity (repeated exposure) / Hazard: Not applicable.

Category --: Item: Aspiration Hazard / Hazard: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity: This product is not expected to be toxic to the aquatic environment.

Persistence and Degradability: There is no data available on the preparation itself.

Bioaccumulative Potential: Bioaccumulation is not expected to be significant.

Mobility in Soil: No data available.

Results of PBT and vPvB Assess: This product contains no PBT/vPvB chemicals.

Other Adverse Effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

SECTION 14 TRANSPORT INFORMATION

UN Number: Not applicable

UN Proper Shipping Name: Not regulated

Transport Hazard Class(es): DOT (Domestic Surface Transportation):

IMO/IMDG (Ocean Transportation):

DOT Proper Shipping: Not regulated

IMDG Proper Shipping Name: Not regulated

DOT Hazard Class: Not applicable

IMDG Hazard Class: Not applicable

DOT Label: None

Sub Class: Not applicable

UN/NA Number: Not applicable

IMDG Packing Group: Not applicable

DOT Packing Group CERCLA/DOT RQ: NA gal. / NA lbs.

Special Precautions For User: Not applicable

Transport: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

Environmental Hazards IMDG: Marine Pollutant: No

Packing Group: Not applicable

SECTION 15**REGULATORY INFORMATION****Regulatory Overview:**

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.

WHMIS Classification:

Not regulated.

US EPA Tier II Hazards:

Fire: No / Sudden Release of Pressure: No / Reactive: No / Immediate (acute): Yes / Delayed (chronic): No

EPCRA 311/312:

Chemicals and RQs (>0.1%): No product ingredients listed

EPCRA 302:

Extremely Hazardous (>0.1%): No product ingredients listed

EPCRA 313

Toxic Chemicals (>0.1%): 2-butoxy-ethanol

Proposition 65

Carcinogens (>0.0%): No product ingredients listed

Proposition 65:

Developmental Toxins (>0.0%): No product ingredients listed

Proposition 65:

Female Repro Toxins (>0.0%): Oxirane

Proposition 65:

Male Repro Toxins (>0.0%): Oxirane

N.J. RTK Substance (>1%):

2-butoxy-ethanol

Penn RTK Substances (>1%):

2-butoxy-ethanol

SECTION 16**OTHER INFORMATION**

Disclaimer: Regal Chemical Company believes that the information and recommendations contained herein (including data and statements) are accurate as of the date thereof. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, express or implied, is made concerning the information provided herein. The information provided herein relates to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and of the information referred to herein are beyond the control of Regal Chemical Company, Regal Chemical Company expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.