

J.B.CHEMICAL CO., INC.

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

1. Identification of the substance or mixture and of the supplier

1.1 Product identifier used on the label: Super APC

1.2 Other means of identification: Not Applicable

1.3 Recommended use of the chemical and restrictions on use: An automotive interior and exterior all-purpose cleaner/degreaser. This material should not be used for any other purpose than that recommended without expert advice.

1.4 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

J.B.Chemical Co., Inc.
14803 S. Spring Street
Gardena, CA 90248, USA
310-532-3021
800-522-2468

1.5 Emergency phone numbers:

J.B.Chemical Co., Inc.: (310) 532-3021, (800) 522-2468 Monday - Friday, 7:00am - 3:00pm PST
Chemtrec: (800) 424-9300 - Outside the continental U.S.: (703) 527-3887 24 Hours

2. Hazard(s) identification

2.1 Classification of the chemical in accordance with 29 CFR 1910.1200(d) and GHS Rev.5th e.2013:

This product is classified as hazardous.

Eye Damage Category 1

Skin Corrosion Category 1

Aquatic Acute Category 3

2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with 29 CFR 1910.1200(f) and GHS Rev.5th e.2013:

Signal word: Danger

Hazard statement(s):

- **Physical Hazards:** Not Applicable
- **Health Hazards:** H314: Causes severe skin burns and eye damage.
- **Environmental Hazard:** H402: Harmful to aquatic life.

Symbol(s):

			
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Precautionary statement(s):

SAFETY DATA SHEET Super APC (VOC Compliant)

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Date of last Revision: 08/19/2014

Prevention:

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/ eye protection.

P273: Avoid release to the environment.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container in accordance with CERCLA/CWA (Section 311)/SARA Title III Regulations.

2.3 Describe any hazards not otherwise classified that have been identified during the classification process

It may cause respiratory tract irritation.

2.4 Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required: Not Applicable

3.Composition/ information on ingredients

Chemical name	CAS No.	EC No.	Concentration (Wt%)	Classification 29 CFR 1910.1200(d)/GHS
Ethylene glycol monobutyl ether	111-76-2	203-905-0	≤ 8.00	Flam. Liq.4 H227 Acute Tox.4 H302 Acute Tox.4 H312 Skin Irrit.2 H315 Eye Irrit.2 H319 Acute Tox.4 H332 Asp Tox.1 H304
Sodium Metasilicate Pentahydrate	10213-79-3	Not listed	≤ 2.00	Acute Tox.4 H302 Eye Dam.1 H318 Skin Corr.1B H314 STOT SE3 H335
Sodium Hydroxide	1310-73-2	215-185-5	≤ 2.75	Acute Tox.3 H301 Acute Tox.4 H312 Eye Dam.1 H318 Skin Corr.1A H314 Aquatic Acute 3 H402
Ethoxylated Alcohols Mixture	66455-15-0 68551-12-2	Not listed/ 500-221-7	≤ 4.00	Skin Irrit.2 H315 Eye Irrit.2 H319

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Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

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	68002-97-1			STOT SE3 H335 Asp Tox.1 H304 Aquatic Acute 2 H401
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4. First-aid measures

4.1 Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion.

- **Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, get medical attention.
- **Skin contact:** Clean affected areas with mild soap and water. Remove contaminated clothing, including shoes, and launder before reuse or discard. If any irritation persists, seek medical attention.
- **Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If any irritation persists, get medical attention.
- **Ingestion:** Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended.

4.2 Most important symptoms/effects, acute and delayed: Serious eye and skin burns/irritation.

4.3 Indication of immediate medical attention and special treatment needed, if necessary: Persistent eye or skin irritation.

5. Fire-fighting measures

5.1 Suitable (and unsuitable) extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Not Applicable

5.3 Special protective equipment and precautions for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Wear protective equipment to prevent skin and eye contact and breathing in vapors. Remove all possible sources of ignition in the surrounding area. Shut off leaks, if possible without personal risks. Use appropriate containment (of product and fire-fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

6.2 Methods and materials for containment and cleaning up:

For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery

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SDS No: 4015-1

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or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802.

7. Handling and storage

7.1 Precautions for safe handling:

Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Handle an open container with care in a well-ventilated area. Ventilate work place in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains.

7.2 Conditions for safe storage, including any incompatibilities:

For small containers, keep out of reach of children. Keep tightly closed and store in a cool and well ventilated area. Store only in approved containers and protect from physical damage. Storage should meet OSHA standards. Empty drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulation. Do not overheat; product will start boiling if heated above 200°F.

8. Exposure controls/ personal protection

8.1 OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Component(s):

Chemical name	Type	Exposure Limit values	Source
Sodium Metasilicate Pentahydrate CAS No: 10213-79-3	TWA (dust, 8 hr)	2 mg/m ³	Manufacturer's recommendation
Ethylene glycol monobutyl ether CAS No: 111-76-2	TWA (vapor, 8 hr)	20 ppm	US. ACGIH Threshold Limit Values (01 2010)
Sodium Hydroxide CAS No: 1310-73-2	TWA (vapor, 8 hr)	2 mg/m ³	US. ACGIH Threshold Limit Values (01 2010)

8.2 Appropriate engineering controls: Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.3 Individual protection measures, such as personal protective equipment:

- **Eye/face protection:** Select and use eye/face protection to prevent contact based on the results of an

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

- **Skin/hand protection:** Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Nitrile rubber
- **Respiratory protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements. If applicable, types of respirators to be considered for this material include: half-face air-purifying filter respirator suitable for organic vapors and particulates (P95).

9. Physical and chemical properties

Appearance (physical state, color, etc.):	Liquid, yellow
Odor:	Fragrant odor
Odor threshold:	Not Determined
pH:	13.0
Melting point/freezing point:	Not Applicable
Initial boiling point and boiling range:	>200 °F
Flash point:	Not Applicable
Evaporation rate:	Not Determined
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Not Applicable
Vapor pressure:	Not Determined
Vapor density:	Not Determined
Relative density:	1.02 at 77°F (Water=1)
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water:	Not Determined
Auto-ignition temperature:	Not Determined
Decomposition temperature:	Not Determined
Viscosity:	Not Determined

10. Stability and reactivity

- 10.1 **Reactivity:** This material is considered to be non- reactive under normal use conditions.
- 10.2 **Chemical stability:** Stable.
- 10.3 **Possibility of hazardous reactions:** Hazardous polymerization will not occur.
- 10.4 **Conditions to avoid (e.g., static discharge, shock, or vibration):** Not Applicable
- 10.5 **Incompatible materials:** Strong oxidizing agents.
- 10.6 **Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

- **Inhalation:** It may cause respiratory tract irritation. Do not breathe dust/fume/gas/mist/vapors/spray.
- **Ingestion:** May be harmful if ingested. Causes burns and gastrointestinal irritation with nausea, vomiting and diarrhea.
- **Skin contact:** Causes severe skin burns.
- **Eye contact:** Causes serious eye damage.

11.2 Symptoms related to the physical, chemical and toxicological characteristics: Not Determined

11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure: See section 11.1.

11.4 Numerical measures of toxicity (such as acute toxicity estimates): Not determined on the mixture.

Acute toxicity

Name (Components)	Route	Species	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	Dermal	Rabbit	LD50>5000 mg/m3
“	Ingestion	Rat	LD50>1152 mg/kg
“	Inhalation (4 hours)	Rat	LD50>2060 ppm
Ethylene glycol monobutyl ether CAS No:111-76-2	Dermal	Rat	LD50 > 2000 mg/kg
“	Ingestion	Rat	LD50 > 1300 mg/kg
“	Inhalation-vapor (3 hours)	Rat	LC50 > 4.9 mg/l
Sodium Hydroxide CAS No:1310-73-2	Dermal	Rabbit	LD50 >1350 mg/m3
“	Ingestion	Rat	LD50 >300 mg/kg
“	Inhalation (4 hours)		No Data Available
Ethoxylated Alcohols Mixture	Dermal	Rabbit	LD50>5000 mg/m3
“	Ingestion	Rat	LD50>2000 mg/kg
“	Inhalation-aerosol (4 hours)	Rat	No Data Available

Skin Corrosion/Irritation

Name (Components)	Species	Value
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SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

Sodium Metasilicate Pentahydrate CAS No:10213-79-3	Rabbit	Corrosive to skin.
Ethylene glycol monobutyl ether CAS No:111-76-2	Rabbit (24 hours)	Moderate irritation.
Sodium Hydroxide CAS No:1310-73-2	Human	Corrosive to skin.
Ethoxylated Alcohols Mixture		Moderate irritation

Serious Eye Damage/Irritation

Name (Components)	Species	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	Rabbit	Corrosive to eyes.
Ethylene glycol monobutyl ether CAS No:111-76-2	Rabbit (24 hours)	Moderate irritation.
Sodium Hydroxide CAS No:1310-73-2		Corrosive to eyes.
Ethoxylated Alcohols Mixture		Causes severe eye irritation. May cause severe corneal injury.

Respiratory or skin sensitization

Name (Components)	Species	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3		Not a sensitizer
Ethylene glycol monobutyl ether CAS No:111-76-2	Guinea Pig	Not a skin sensitizer
Sodium Hydroxide CAS No:1310-73-2	Human	Not a sensitizer
Ethoxylated Alcohols Mixture	Human	No Data Available

Germ Cell Mutagenicity

Name (Components)	Route	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	In Vivo	Negative
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	In Vitro	Negative
Ethylene glycol monobutyl ether CAS No:111-76-2	In Vitro: Salmonella typhimurium assay (Ames test)	Negative +/- activation
Sodium Hydroxide CAS No:1310-73-2	In Vitro: Salmonella typhimurium assay (Ames test)	Negative
Ethoxylated Alcohols Mixture	In Vitro	No Data Available

Carcinogenicity

Name (Components)	Route	Species	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3			Not classified
Ethylene glycol monobutyl ether CAS			Not Classified.

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

No:111-76-2			
Sodium Hydroxide CAS No:1310-73-2			Not Classified.
Ethoxylated Alcohols Mixture			Not Classified.

Reproductive toxicity

Name (Components)	Route	Species	Value	Test Result	Exposure Duration
Sodium Metasilicate Pentahydrate CAS No:10213-79-3			No relevant data found.		
Ethylene glycol monobutyl ether CAS No:111-76-2			Not Classified		
Sodium Hydroxide CAS No:1310-73-2			No relevant data found.		
Ethoxylated Alcohols Mixture			No relevant data found.		

Specific Target Organ Toxicity - single exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	Inhalation		Respiratory system	Causes irritation.		
Ethylene glycol monobutyl ether CAS No:111-76-2	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL	
Sodium Hydroxide CAS No:1310-73-2				No relevant data found.		
Ethoxylated Alcohols Mixture				No relevant data found.		

Specific Target Organ Toxicity - repeated exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Sodium Metasilicate Pentahydrate CAS No:10213-79-3				No relevant data found.		
Ethylene glycol monobutyl ether CAS No:111-76-2	Dermal	Rat		150 mg/kg	NOAEL	
Sodium Hydroxide CAS No:1310-73-2				No relevant data found.		
Ethoxylated Alcohols Mixture				No relevant data found.		

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

Aspiration Hazard

Name (Components)	Value
Sodium Metasilicate Pentahydrate CAS No:10213-79-3	Not Classified
Ethylene glycol monobutyl ether CAS No:111-76-2	Aspiration Hazard Toxicity Category 1
Sodium Hydroxide CAS No:1310-73-2	No relevant data found.
Ethoxylated Alcohols Mixture	Aspiration Hazard Toxicity Category 1

12. Ecological information

- 12.1 **Ecotoxicity (aquatic and terrestrial, where available):** Not determined
- 12.2 **Persistence and degradability:** Not determined
- 12.3 **Bioaccumulative potential:** Not determined
- 12.4 **Mobility in soil:** Not determined
- 12.5 **Other adverse effects (such as hazardous to the ozone layer):** Not determined

13. Disposal considerations

- 13.1 **Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:** Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not contaminate any lakes, streams, ponds, or underground water supplies.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

14. Transport information

Because this product is produced and shipped in several different container sizes, domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

- 14.1 **UN number:** Not Regulated
- 14.2 **UN proper shipping name:** Not Regulated
- 14.3 **Transport hazard class(es):** Not Regulated
- 14.4 **Packing group, if applicable:** Not Regulated
- 14.5 **Environmental hazards (e.g., Marine pollutant (Yes/No)):** Not determined
- 14.6 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not determined

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SDS No: 4015-1

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Date of last Revision: 08/19/2014

Asp Tox.1 or 2: Aspiration Toxicity Category 1 or 2
Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2
Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4
Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3
STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3

Sources of key data used to compile the Safety Data Sheet:

International Agency for Research on Cancer
International Air Transport Association: Dangerous Goods Regulations.
International Maritime Organization: International Maritime Dangerous Goods Code
Components supplier data
Globally harmonized system of classification and labeling of chemicals (GHS Rev.5th e.2013)
European Chemicals Agency website
EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory
US California Proposition 65
US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
US Department of Health & Human Services. National Toxicology Program
US Department of Transport DOT 49 CFR
US National Fire Protection Association (NFPA) 704
US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)
US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication Standard)
US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)
US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313
US Toxic Substances Control Act (TSCA)

Key or legend to abbreviations and acronyms used in the safety data sheet:

ACGIH - American Conference of Governmental Industrial Hygienists
CAS No - Chemical Abstract System No.
CERCLA- US Comprehensive Environmental Response, Compensation, and Liability Act
COC - Cleveland Open Cup (flash and fire point)
DOT -Department Of Transportation
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods code
mg/m³ - milligrams per cubic meter
mg/l - milligrams per liter
NIOSH - National Institute for Occupational Safety and Health
NFPA- US National Fire Protection Association
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
OEL-Occupational Exposure Limits
PEL - Permissible Exposure Limits
ppb - Parts Per Billion
ppm - Parts Per Million
PMCC - Pensky-Martin Closed Cup (flash point)
RCRA - EPA Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act Title I, II, III
SDS - Safety Data Sheet
STEL- Short Term Exposure Limit
TCC - Tag Closed Cup (flash point)

SAFETY DATA SHEET Super APC (VOC Compliant)

SDS No: 4015-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

TLV - Threshold Limit Value

TWA - Time Weighted Average Exposure

< - Less than

> - More than

Procedure used to derive the classification for mixtures according to Regulations 29 CFR 1900.1200 and GHS Rev.5th e.2013:

Calculation method: Classification of mixtures based on ingredients of the mixture.

LEGAL DISCLAIMER:

The information contained in this document is based upon data believed to be reliable at the time of preparing this SDS and relates only to the matters specifically mentioned in this document.

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Prepared by: J.B.Chemical Regulatory Affairs

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