

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....**DSP436**
PRODUCT NUMBER:.....DSP436
OTHER MEANS OF IDENTIFICATION: Clear liquid, slightly sweet
RECOMMENDED USE:For industrial and manufacturing use only.
RESTRICTIONS ON USE:.....Use only as directed.

COMPANY:..... CHEMTRON CORPORATION
3500 Harry S. Truman Blvd
St. Charles, MO 63301
636-940-5445 (Mon-Fri., 8:00-4:00)
www.chemtroncorporation.com

EMERGENCY PHONE:(800) 424-9300 (CHEMTREC)
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2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:.....Use reasonable care in handling. Protect eyes, skin and avoid spills on clothing. Keep container tightly closed when not in use. Store in cool, dry area. Avoid excessive breathing of vapors. Maintain adequate ventilation

CLASSIFICATION 29 CFR 1910.1200:Product is hazardous by OSHA criteria.

Acute toxicity, oral.....Category 4
Flammable liquidsCategory 3
Skin corrosion/irritationCategory 1B
Serious eye damage/eye irritation ...Category 1



GHS SIGNAL WORD:**Danger**

GHS HAZARD STATEMENTS:.....H226: Flammable liquid and vapor.
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage

GHS PRECAUTIONARY STATEMENTS:.....P234: Keep only in original packaging.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.



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P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.
 P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.
 P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352: IF ON SKIN: wash with plenty of water
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
 P310: Immediately call a POISON CENTER/doctor/...
 P363: Wash contaminated clothing before reuse.
 P390: Absorb spillage to prevent material damage.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P404: Store in a closed container.
 P405: Store locked up
 P501: Dispose of contents/container in accordance with local state and federal regulations.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Alkyl Dimethyl Benzyl Ammonium Chloride	20-25	68391-01-5
2-propanol	5-10	67-63-0

The exact percent by weight of the ingredients in this formulation is proprietary.

4 – FIRST-AID MEASURES

BREATHING (INHALATION):..Move to fresh air. Call a physician if symptoms develop or persist
SWALLOWING (INGESTION):..Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
EYES:.....Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
SKIN (DERMAL):Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

5 – FIRE-FIGHTING MEASURES

FLASHPOINT:.....Not Flammable.
EXTINGUISHING MEDIA:Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
SPECIAL HAZARDSVapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

SPECIAL FIRE FIGHTING PROCEDURES:Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Eliminate all ignition sources (no smoking, flares, sparks, or flames In immediate area):
Take precautionary measures against static discharge. Use only non-sparking tools.
Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spill: Stop the flow of material if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible.
Cover with plastic sheet to prevent spreading. Use a noncombustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains

Small spill: Absorb with earth, sand or other noncombustible material and transfer to containers for later disposal

PERSONAL PRECAUTIONS:....Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.
Eliminate all ignition sources (no smoking, flares, sparks, or flames In immediate area).
Wear appropriate protective equipment and clothing during clean up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages, cannot be contained. For personal protection see section 8.

7 – HANDLING and STORAGE

STORAGE:.....Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

HANDLING:.....Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.



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INGREDIENT	SOURCE & PARAMETER	EXPOSURE LIMIT
2-propanol	OSHA PEL	980 mg/m3

Appropriate engineering controls

EXPLOSION-PROOF GENERAL AND LOCAL EXHAUST VENTILATION. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

EYE/FACE PROTECTION Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

HAND PROTECTION Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

OTHER Wear appropriate chemical resistant clothing.

RESPIRATORY PROTECTION If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

THERMAL HAZARDS Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE: Clear liquid

ODOR: Sweet

BOILING POINT: No data available

VAPOR PRESSURE: No data available

VAPOR DENSITY (AIR=1): No data available

SPECIFIC GRAVITY: 97-1

pH: 7.5-8.5

SOLUBILITY IN WATER: Completely

FLAMMABILITY: Not flammable

EVAPORATION RATE: No data available.

MELTING POINT/FREEZING POINT: No data available.

10 – STABILITY and REACTIVITY

STABILITY: Material is stable under normal conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Acids. Strong oxidizing agents. Isocyanates. Chlorine.

HAZARDOUS REACTIONS: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.



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HAZARDOUS DECOMP:No hazardous decomposition products are known.

11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL CHARACTERISTICS:

Skin: Causes severe skin burns.

Eyes: Causes serious eye damage.

Respiratory: May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Ingestion: Causes digestive tract burns. Harmful if swallowed.

NUMERICAL MEASURES OF TOXICITY:Not determined

LISTED CARCINOGEN:No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

INGREDIENTS	DATA
Alkyl Dimethyl Benzyl Ammonium Chloride	Oral rat LD50, 430 mg/kg
2-propanol	Oral rat LD50, 5840 mg/kg

12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION:

PRODUCT	DATA
Alkyl Dimethyl Benzyl Ammonium Chloride	LC50 blugill 96hr 0.515 mg/l
2-propanol	LC50 bluegill 96 hr >1400 mg/l
DSP-436	LC50 Ceriodaphnia 48hr 1.42 mg/l

PERSISTENCE AND DEGRADABILITY:This product is expected to be readily biodegradable.

BIOACCUMULATIVE POTENTIAL:No data available.

MOBILITY IN SOIL:No data available.

OTHER ADVERSE EFFECTS: ..No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:.....Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, Isopropanol)

HAZARD CLASS:8,3
UN/NA NUMBER:UN2920
PACKAGING GROUP :II



15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

TSCA STATUS:All ingredients listed or exempt from listing
SECTION 311/312:None
US EPA CERCLA:.....N/A
PROP 65No ingredients listed

16 – OTHER INFORMATION

NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
3	2	0	

HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	1	i

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable. The information given is designed only as a guidance. 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.