



SAFETY DATA SHEET

PURIFY 5600

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Purify 5600
CHEMICAL NAME: Emulsion based on polyacrylamide, cationic
PRODUCT USE: Flocculant/Dewatering Polymer
SUPPLIER: Purify Tel: 713-463-1929
1707 Townhurst Drive
Houston, TX 77043
EMERGENCY TELEPHONE:
CHEMTREC: 1-800-424-9300
IDENTIFICATION NO:

II. HAZARDS IDENTIFICATION



State of Matter: Off-white liquid with mineral oil-like odor

Classification of Product:

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2B	Serious eye damage/irritation
Aquatic Acute	3	Hazardous to the aquatic environment – acute

Emergency overview

WARNING:

Causes serious eye irritation; causes skin irritation. Contains petroleum distillates Repeated exposure may cause skin dryness or cracking.
Avoid contact with the skin, eyes and clothing.
Caution – Slippery when wet!
Use NIOSH approved respirator as needed to mitigate exposure.
Eye wash fountains and safety showers must be readily accessible.

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Chronic toxicity:

Carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Genotoxicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

Teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

Other Information:

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

III. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Content (W/W)	Chemical name
124-04-9	< 1.0 %	adipic acid
64742-47-8	15.0 – 30.0 %	Distillates (petroleum), hydrotreated, light Ethanaminium,N,N,N-trimethyl-2[(1-oxo-2-propenyl)oxy]-chloride, polymer with 2- propenamide
69418-26-4	< 50.0 %	
78330-23-1	< 3.0 %	Alcohols, C11-14-iso-, C13-rich, ethoxylated propoxylated

IV. FIRST AID MEASURES

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Aspiration hazard.

INHALATION:

If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

INGESTION:

Immediately rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention.

SKIN CONTACT:

Immediately remove contaminated clothing. Wash affected areas thoroughly with soap and water. Seek medical attention.

EYE CONTACT:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.

V. FIRE-FIGHTING MEASURES

Flash point >100°C
Flammability not highly flammable
Autoignition temperature not determined

SUITABLE EXTINGUISHING MEDIA:

Dry powder, alcohol-resistant foam

ADDITIONAL INFORMATION:

Avoid use of water jet. If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist. Do not release chemically contaminated water into drains, soil or surface water. Contaminated extinguishing water must be disposed of in accordance with official regulations.

HAZARDS DURING FIRE-FIGHTING:

Evolution of fumes/fog:

The substances /groups of substances mentioned can be released in case of fire.

Spilled product is slippery underfoot. Very slippery when wet.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING:

Wear a self-contained breathing apparatus and protective equipment.

VI. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Use personal protective clothing. Keep people away and stay on the upwind side.

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into drains/surface waters/groundwater.

SPILL CLEAN UP METHODS:

For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material and place in appropriate labeled containers for disposal.
Dispose of absorbed material in accordance with regulations.

VII. HANDLING AND STORAGE

HANDLING:

Keep away from sources of ignition. No smoking.
Take precautionary measures against static discharge.

STORAGE:

Keep container tightly closed and dry; store in a cool place. Avoid wet, damp or humid conditions, temperature extremes and ignition sources.
Storage temperature: 5 - 25°C
Protect from temperatures below 5°C, above 25°C

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS:

Adipic acid	ACGIH	TWA value: 5 mg/m ³
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 200 mg/m ³ Non-aerosol(total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.

PROTECTIVE EQUIPMENT:



RESPIRATORY EQUIPMENT: NIOSH-certified (or equivalent) organic vapor/particulate respirator.
HAND PROTECTION: Chemical resistant protective gloves
EYE PROTECTION: Tightly fitting safety goggles (chemical goggles) and face shield
SKIN PROTECTION: Impermeable protective clothing
HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice.
Eye wash fountains and safety showers must be easily accessible.

IX. PHYSICAL AND CHEMICAL PROPERTIES

FORM: liquid
ODOR: mineral oil-like
COLOR: off-white
pH: 4
BOILING POINT: 100°C
FLASH POINT: > 100° C
DENSITY: approx. 1.0 g/cm³ (20°C)
RELATIVE DENSITY: no data available
VISCOSITY, DYNAMIC: 1,000 – 1,500 mPa.s
VISCOSITY, KINEMATIC: > 20.5 mm²/s
% VOLATILES: not determined
SOLUBILITY IN WATER: dispersible

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Avoid extreme temperatures. Avoid freezing. Avoid all sources of ignition: heat, sparks, open flame

SUBSTANCES TO AVOID:

Water, reactive chemicals, strong oxidizing agents

HAZARDOUS REACTIONS:

The product is chemically stable. No hazardous reactions when stored and handled as instructed.

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products if stored and handled as prescribed/indicated.

CORROSION TO METALS:

No corrosive effect on metals

OXIDIZING PROPERTIES:

Not fire-propagating

XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL:

Type of value: LD50

Species: rat

Value: >2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

IRRITATION/CORROSION

SKIN:

Species: rabbit

Result: Irritant

Method: OECD Guideline 404

EYE:

Species: rabbit

Result: Irritant

XII. ECOLOGICAL INFORMATION

AQUATIC TOXICITY

Information on: cationic polyacrylamide

Assessment of aquatic toxicity:

The hydrolysis products are not acutely harmful to aquatic organisms. Acute effect on aquatic organisms are due to the cationic charge of the polymer, which is quickly neutralized in natural water courses by irreversible adsorption onto particles, hydrolysis and dissolved organic carbon. Fish toxicity and aquatic toxicity are drastically reduced by rapid irreversible adsorption onto suspended and/or dissolved organic matter.

Fish

Acute:
static

Oncorhynchus/LC50 (96): 10 – 100 mg/L
(under static conditions in the presence of 10 mg/L humic acid)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates

Acute:

Daphnia magna/EC50 (48 h): > 100 mg/L
(under static conditions in the presence of 10 mg/L humic acid)

DEGRADABILITY:

Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria)
The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

Hydrolysis

Information on: cationic polyacrylamide: *In contact with water, the substance will hydrolyse rapidly*

Bioaccumulation:

Information on: cationic polyacrylamide: *Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.*

Environmental mobility:

Information on: cationic polyacrylamide
Assessment transport between environmental compartments: *Adsorption to solid soil phase is expected*

XIII. DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT:

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

CONTAINER DISPOSAL:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

RCRA:

Not a hazardous waste under RCRA (40 CFR 261)

XIV. TRANSPORT INFORMATION

LAND TRANSPORT:

US DOT Not classified as a dangerous good under transport regulations

SEA TRANSPORT:

IMDG Not classified as a dangerous good under transport regulations

AIR TRANSPORT:

IATA/ICAO Not classified as a dangerous good under transport regulations

XV. REGULATORY INFORMATION

INVENTORIES

US FEDERAL REGULATIONS:

Chemical TSCA released / listed

EPCRA 311/312 (Hazard Categories) Acute

STATE REGULATIONS

State RTK
MA, NJ, PA

CAS Number
64742-47-8

Chemical Name
Distillates (petroleum),hydrotreated light

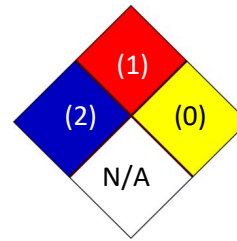
CALIFORNIA PROP. 65: The product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

XVI. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

NATIONAL FIRE PROTECTION ASSN (NFPA)

HEALTH	2
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	



GENERAL INFORMATION:

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