Safety Data Sheet

HYDRIFLOC 9247

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SECTION 1: Identification

Identification

Product Name	:	HYDRIFLOC 9247
Product code	:	WT9247
CAS-No.	:	MIXTURE
Synonyms	:	No additional information available
Recommended use	:	No additional information available
Restrictions on use	:	No additional information available

Supplier

Hydrite Chemical Co.
17385 Golf Parkway
Brookfield, WI, 53045
T 262-792-1450

Emergency telephone number

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: 1-800-283-4459
CHEMTREC Emergency #: (800) 424-9300

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes serious eye irritation

Precautionary statements (GHS US)

Prevention : Wash hands, forearms and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified

Hazards not otherwise classified : No additional information available

Unknown acute toxicity

Unknown acute toxicity : 26% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
28.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
28.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

Substances/ Mixtures

Name	Product identifier	%	GHS US classification
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	CAS-No.: 64742-47-8	25 – 50	Flam. Liq. 4, H227 Asp. Tox. 1, H304
ALCOHOLS, C12-16, ETHOXYLATED	CAS-No.: 68551-12-2	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

Comments: May contain alternate CAS for alcohol ethoxylates 68439-50-9 or 68002-97-1 based on raw material availability.

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

First-aid measures after skin contact : If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause mild irritation. Vapor from heated material or mist may irritate the respiratory tract. Symptoms of overexposure to vapors include: dizziness, headaches, nausea.

Symptoms/effects after skin contact : May cause slight irritation to the skin. Prolonged or repeated contact may cause dermatitis by loss of natural skin fats.

Symptoms/effects after eye contact : Causes serious eye irritation. pain. tearing. redness.

Symptoms/effects after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs may occur during ingestion or vomiting, resulting in severe pulmonary injury.

Immediate medical attention and special treatment, if necessary : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. If large quantities have been inhaled or ingested, get medical attention immediately. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	:	Do not use a heavy water stream. Water may be ineffective but should be used to cool fire-exposed structures and vessels.

Specific hazards arising from the chemical

Fire hazard	:	No fire hazard.
Explosion hazard	:	No direct explosion hazard. Heat from fire can generate flammable vapor.
Hazardous decomposition products	:	Carbon oxides (CO, CO2). Nitrogen oxides. Ammonia (as NH3).
Firefighting instructions	:	Evacuate personnel to a safe area. Do not enter fire area without proper protective equipment, including respiratory protection. Stay upwind/keep distance from source. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	:	Caution - this product can cause the floor to be slippery.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Do not exceed the occupational exposure limits (OEL).
Emergency procedures	:	Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate spillage area.

Environmental precautions

Environmental precautions	:	Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

For containment	:	Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. CAUTION: Spilled material may be slippery.
Methods for cleaning up	:	Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with plenty of water to remove trace residue and dispose of properly. Use detergent if needed. If slippery conditions persist, apply dry sweeping compound.
Other information	:	Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed	:	Handle product only in closed system or provide appropriate exhaust ventilation. Flashpoint determination was performed using Pensky Martens type closed cup method. The method indicates a flash point greater than 93.3 Deg. C (200 Deg. F). Although there was not flashpoint below 93.3 Deg. C (200 Deg. F), some flammable vapors were evolved during the test as evidenced by the enlargement of the flame. Therefore, caution should be exercised during storage and handling.
Precautions for safe handling	:	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust or mist formation. Avoid breathing dust/fume/gas/mist/vapors/spray. Do NOT taste or swallow.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
Incompatible products	:	Oxidizing agent.
Incompatible materials	:	Keep away from incompatibles. Refer to Section 10 on Incompatible Materials.
Storage temperature	:	5 – 30 °C Store at room temperature, protect from frost.
Heat-ignition	:	Keep away from all sources of ignition.
Information on mixed storage	:	Store away from oxidising agents.
Packaging materials	:	Keep only in the original container. Do not store in unlabeled or mislabeled containers. Keep container tightly closed. Store in a secure manner. To avoid product degradation and equipment corrosion, do not use iron, copper, or aluminum containers or equipment. Although there is no flashpoint detected below 200 °F, flammable vapors evolved during testing as evidenced by enlargement of the flame. Therefore caution should be exercized during storage and handling.

SECTION 8: Exposure controls/personal protection

Control parameters

Component	ACGIH	OSHA
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	200 mg/m³ TWA	No data available
ALCOHOLS, C12-16, ETHOXYLATED	No data available	No data available

Section 8 Notes : Manufacturer recommended exposure limits: 165 ppm; 500 ppm (skin).

Appropriate engineering controls

Appropriate engineering controls	:	General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.
Environmental exposure controls	:	Avoid release to the environment.

Individual protection measures/Personal protective equipment

Personal protective equipment	:	Wear recommended personal protective equipment. Provide readily accessible eye wash stations and safety showers.
Hand protection	:	Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves. Chemical-resistant. Impervious.
Eye protection	:	Wear chemical safety goggles while handling this product. Wear additional eye protection such as chemical safety goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.
Skin and body protection	:	Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Impervious.
Respiratory protection	:	If exposure limits are exceeded, wear: NIOSH-Approved respirator. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use. Respiratory protection may be required to avoid overexposure when handling this product.
Other information	:	Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use. Eye-wash station. Safety shower. Protective clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Grayish-white.
Odor	:	Ammonia odor.
Odor threshold	:	No data available
pH	:	6 – 8 in water
Melting point	:	-0.4 – 32 °F
Freezing point	:	No data available
Crystallization (Salt Out) Temperature	:	No data available
Boiling point	:	177 – 260 °F
Flash point	:	200 °F closed cup
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	~ 1
Solubility	:	Limited by viscosity.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	> 20.5 mm²/s @ 104 °F
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10: Stability and reactivity

Information on stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	Keep away from heat, sparks and flame.
Incompatible materials	:	strong oxidizing agents.
Hazardous decomposition products	:	Carbon oxides (CO, CO2). Nitrogen oxides. ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Numerical measures of toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	Rat: > 5000 mg/kg	Rabbit: > 2000 mg/kg	Rat: > 5.2 mg/l/4h Rat (Dust/Mist): > 5.2 mg/l
ALCOHOLS, C12-16, ETHOXYLATED	No data available	No data available	No data available

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye irritation.

Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Viscosity, kinematic	:	> 20.5 mm²/s @ 104 °F
Likely routes of exposure	:	Skin and eye contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	:	May cause mild irritation. Vapor from heated material or mist may irritate the respiratory tract. Symptoms of overexposure to vapors include: dizziness, headaches, nausea.
Symptoms/effects after skin contact	:	May cause slight irritation to the skin. Prolonged or repeated contact may cause dermatitis by loss of natural skin fats.
Symptoms/effects after eye contact	:	Causes serious eye irritation. pain. tearing. redness.
Symptoms/effects after ingestion	:	May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs may occur during ingestion or vomiting, resulting in severe pulmonary injury.
Other information	:	Direct contact with this material can cause moderate skin and mild eye irritation. Toxicological information on the regulated components of this product is as follows: Petroleum Distillates, Hydrotreated Light (CAS# 64742-47-8) has acute oral (rat) and dermal (rabbit) LD50 values of > 5 g/kg and > 3.16 g/kg, respectively. Prolonged or repeated skin contact tends to remove skin oils, possibly leading to irritation and dermatitis. Direct contact may cause eye irritation. Overexposure to high vapor concentrations, > ~ 700 ppm, are irritating to the eyes and respiratory tract and may cause headaches, dizziness, drowsiness, and other central nervous system effects, including death. Aspiration of minute amounts during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. In a 90-day oral gavage (rats) study at 100, 500, or 1000 mg/kg, no treatment-related mortalities were observed. There were no significant changes in body weights or food consumption in any dose groups. Increased liver weights were observed in male and female rats at 500 and 1000 mg/kg. Increased kidney weights were observed only in male rats at 500 and 1000 mg/kg. Testes weights were significantly elevated in male rats at 1000 mg/kg. Kidney effects, indicative of light hydrocarbon nephropathy, occurred in male rat kidney at all dose levels. Histological findings of hepatocellular hypertrophy were seen in the livers of male rats at 1000 mg/kg and in female rats at 500 and 1000 mg/kg. All treatment-related effects were reversible within the 4-week recovery period. Observed kidney effects (including light hydrocarbon nephropathy and increased kidney weight) are a unique response by male rats to chronic hydrocarbon exposure, which the U.S. EPA has declared "not relevant to humans". High-dose liver effects (including hepatocellular hypertrophy, or enlarged liver cells) are a direct consequence of the sustained high-fat "hydrocarbon diet". The No Observed Adverse Effect Level (NOAEL) for this study was 1,000 mg/kg. Alcohols (C10-16), ethoxylated toxicological properties have not been fully investigated. Based on similar materials, this acute oral (rat) LD50 is estimated to range from 1600 - 2500 mg/kg and the acute dermal (rabbit) LD50 value is estimated to be > 2,000 mg/kg. Similar materials produced severe eye irritation and moderate skin irritation in studies with rabbits. C12-14 alcohol ethoxylated toxicological properties have not been fully investigated. The oral LD50 (rat) of this mixture is expected to be consistent with the chemical family of ethoxylated alcohol surfactants, and range from 1.6 to 2.5 g/kg. The acute dermal (rabbit) LD50 value is estimated to be > 2.0 g/kg. One expected component of this mixture was severely irritating to rabbit eyes (undiluted, Draize score = 60). This mixture is expected to be moderately irritating to skin, based on data reported for C9-C11 6EO: (primary irritation index) PII = 5.3/8. Alcohols (C12-16), ethoxylated toxicological properties have not been fully investigated. Based on similar materials, the acute oral (rat) LD50 is estimated to range from 1600 - 2500 mg/kg and the acute dermal (rabbit) LD50 value is estimated to be > 2000 mg/kg. Similar materials produced severe eye irritation and moderate skin irritation in studies with rabbits.

SECTION 12: Ecological information

Toxicity

HYDRIFLOC 9247 (MIXTURE)	
LC50 - Fish [1]	> 100 mg/l Danio rerio OECD Test Guideline 203
EC50 - Crustacea [1]	3.52 mg/l Ceriodaphnia dubia, 48 hour
NOEC chronic fish	25 mg/l Fathead minnow
NOEC chronic crustacea	0.5 mg/l Ceriodaphnia dubia

Persistence and degradability

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of in accordance with all local, state and federal regulations.

Additional information : Do not re-use empty containers. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied. Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

SECTION 14: Transport information

Modes of transport

DOT (Department of Transportation):
Not regulated by the DOT.

IMDG (International Maritime Dangerous Goods Code):
Not regulated by the IMDG.

IATA (International Air Transport Association):
Not regulated by the IATA.

Other transport information

No additional information available

SECTION 15: Regulatory information

US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory or are exempt from TSCA Inventory requirements.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

US State regulations

No additional information available

SECTION 16: Other information

Hazard Rating System

Health: 2
Flammability: 1
Physical: 0

NFPA Rating System

NFPA health hazard: 2
NFPA fire hazard: 1
NFPA reactivity: 0

Abbreviations and acronyms	
HAP	Hazardous Air Pollutant
VOC	Volatile Organic Compound
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
RQ	Reportable Quantity

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Indication of changes: Change(s) made in section 12.
SDS Prepared by: EP

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