



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

1. IDENTIFICATION

Product identifier

Product name HYDROSEAL HY

Other means of identification

Product Code(s) 084533

Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Distribution of substance. Formulation & (re)packing of substances and mixtures. Uses in Coatings. Laboratory activities.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address specialfluidsusa@total.com

Emergency telephone number

Company Phone Number

+1 (713) 483-5039

Emergency telephone

CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Aspiration toxicity - Category 1

Label elements

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

**DANGER**

May be fatal if swallowed and enters airways

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

None known

Other information**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

Properties Affecting Health

If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	>30

Other constituents required for disclosure

Chemical Name	CAS-No	Weight %
Methyl alcohol	67-56-1	<0.15

4. FIRST AID MEASURES

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

First aid measures for different exposure routes

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water.
Inhalation	Move to fresh air. This risk exists only for oils containing a high proportion of very light distillates, or in the case of the formation of mist, or if the product is heated to a high temperature.
Ingestion	Do not ingest. If swallowed then seek immediate medical assistance. Risk of product entering the lungs on vomiting after ingestion. In this case, the casualty should be sent immediately to hospital.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact	Prolonged or repeated contact may dry skin and cause irritation.
Eye contact	Burning feeling and temporary redness.
Inhalation	The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes. Vapors inhaled in strong concentration have a narcotic effect on the central nervous system.
Ingestion	If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Abdominal pain.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Foam. Dry powder. Carbon dioxide (CO ₂).
Uniform Fire Code	Combustible Liquid: III-B
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
<u>Special Hazard</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
<u>Explosion Data</u>	

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information Use personal protective equipment.
 Evacuate non-essential personnel.
 Ensure adequate ventilation, especially in confined areas.
 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 Do not touch or walk through spilled material.

Other information Remove all sources of ignition.

Environmental precautions

General Information Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Stop or contain leak at the source, if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.
 Avoid contact with skin, eyes and clothing.

Technical measures Ensure adequate ventilation.
 Do not spray at high pressure (> 3 bar) .

Prevention of fire and explosion Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke.
 Take precautionary measures against static discharges.

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke.
Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels.
Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts.
Storage installations should be designed with adequate bunds so as to prevent ground or water pollution in case of leaks or spills.
Keep in a bunded area. Keep in a dry, cool and well-ventilated place.
Keep away from open flames, hot surfaces and sources of ignition. Ground/bond containers, tanks and transfer/receiving equipment. Store at room temperature.
Keep containers tightly closed and properly labelled.

Packaging material

Keep only in the original container or in a suitable container for this kind of product: steel , Stainless steel.

Materials to Avoid

Strong oxidizing agents. Strong bases. Copper. Zinc. and their alloys . Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure limits**

Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	S* STEL 250 ppm TWA 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

Biological standards

Chemical Name	ACGIH
Methyl alcohol 67-56-1	Methanol in urine 15 mg/L -end of shift

Exposure controls

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

Engineering Measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Color yellow
Physical State @20°C liquid
Odor No information available
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	325 - 400 °C 617 - 752 °F		EN ISO 3405 EN ISO 3405
Flash point	176 °C 349 °F		ASTM D 93 ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air			
Not applicable		Not applicable	

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

Vapor Pressure	< 0.001 hPa	@ 20 °C	
Vapor density		No information available	
Relative density		No information available	
Density	860.9 kg/m ³	@ 15 °C	ISO 12185
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		Not applicable	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	< 7 mm ² /s	@ 40 °C	ISO 3104
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations Oil leaks in a pressurized circuit may result in a fine flammable spray (the lower flammability limit for oil mist is reached for a concentration of about 45g/m ³)		
Oxidizing Properties	This product is not considered oxidising based on chemical structure considerations		
Possibility of hazardous reactions	None under normal processing		
<u>Other information</u>			
Freezing Point		No information available	
Pour point	-27 °C		ASTM D97

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	None under normal processing.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Conditions to Avoid</u>	Heat, flames and sparks. Take precautionary measures against static discharges.
<u>Incompatible Materials</u>	Strong oxidizing agents. Strong bases. Copper. Zinc. and their alloys . Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.
<u>Hazardous Decomposition Products</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

Numerical measures of toxicity

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

ATEmix (oral) 12198 mg/kg
 ATEmix (dermal) 12198 mg/kg
 Inhalation mg/l
 ATEmix (inhalation-dust/mist) 12.4 mg/l

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)

Information on toxicological effects

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

Eye contact Burning feeling and temporary redness.

Inhalation The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes. Vapors inhaled in strong concentration have a narcotic effect on the central nervous system.

Ingestion If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Abdominal pain.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Sensitization The current toxicological knowledge allows to not classify the product as a sensitizer.

Carcinogenicity The current toxicological knowledge allows to not classify the product as a carcinogen. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	-	-		X

OSHA: (Occupational Safety & Health Administration) X - Present

Mutagenicity The current toxicological knowledge allows to not classify the product as a mutagen.

Germ Cell Mutagenicity The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro assays.

Reproductive toxicity The current toxicological knowledge allows to not classify the product as a toxic to reproduction.

Target Organ Effects (STOT) None known.

STOT-single exposure Not Classified.

STOT - repeated exposure Not Classified.

Aspiration Hazard May be fatal if swallowed and enters airways.

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

12. ECOLOGICAL INFORMATIONEcotoxicity**Acute aquatic toxicity - Product Information**

No information available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	EL50 (48h) > 100 mg (Pseudokirchnerella subcapitata - OECD 201)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	

Chronic aquatic toxicity - Product Information

No information available

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8		NOEL (21d) 10 mg/l (Daphnia magna - OECD 211)	NOEL (14/21d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms No information available.Persistence and degradability**General Information** No data is available on the product itself.Bioaccumulative potential**Product Information** Measured experimental data on hydrocarbon UVCB substances are not meaningful, since each of the constituents is likely to behave differently.**logPow** Not applicable**Component Information** Not applicable.Mobility**Soil** No information availableOther adverse effects**General Information** No information available

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

13. DISPOSAL CONSIDERATIONS**Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol 67-56-1		Included in waste stream: F039		Ignitable waste

Chemical Name	California Hazardous Waste Status
Methyl alcohol 67-56-1	Toxic Ignitable

14. TRANSPORT INFORMATION**DOT** Not regulated**TDG** Not regulated**MEX** Not regulated**ICAO/IATA** Not regulated**IMDG/IMO** Not regulated**ADR/RID** Not regulated**ADN** Not regulated**15. REGULATORY INFORMATION****International Inventories**

All the substances contained in this product are listed or exempted from listing in the following inventories:

U.S.A. (TSCA)
 Europe (EINECS/ELINCS/NLP)
 Australia (AICS)
 Korea (KECL)
 China (IECSC)
 Japan (ENCS)
 Philippines (PICCS)
 New Zealand (NZIoC)

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	<0.15	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	67-56-1	<0.15		Group IV		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl alcohol	5000 lb	

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	X			

Other constituents required for disclosure .

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21

Revision Date: 2015-10-23

Version 1.01

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Methyl alcohol 67-56-1	X	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date:	2015-10-23
Revision Note	(M)SDS sections updated: 5, 16
Abbreviations, acronyms	bw = body weight bw/day = body weight/day UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals SCBA = Self Contained Breathing Apparatus LL = Lethal Loading OECD = Organization for Economic Co-operation and Development GLP = Good Laboratory Practice fw = fresh water mw = marine water or = occasional release dw = dry weight

Legend	Section 8 ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH - National Institute for Occupational Safety and Health TLV - Threshold Limit Values PEL - Permissible Exposure Limits IDHL - Immediately Dangerous to Life or Health concentrations TWA - Time Weight Average STEL - Short Term Exposure Limits S* - Skin notation TSCA - Toxic Substance Control Act
---------------	---

Version GNAM



SDS # : 084533

HYDROSEAL HY

Date of the previous version: 2015-09-21**Revision Date:** 2015-10-23**Version** 1.01

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

Version GNAM