

SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS #: 084516 BIOHYDRAN SY NS 68

Date of the previous version: not applicable **Revision Date:** 2015-06-23 **Version** 1

1. IDENTIFICATION

Product identifier

Product name BIOHYDRAN SY NS 68

Other means of identification

Product Code(s) 084516

NumberDN9Substance/mixtureMixture

Recommended use of the chemical and restrictions on use

Identified uses Hydraulic oil.

Uses advised againstDo 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 USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300

Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)



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Unknown Acute Toxicity

Not applicable

Hazards not otherwise classified (HNOC)

None known

Other information

· No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Polyalkylene glycol	۸	>95

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE. Take care to self-protect by avoiding becoming

contaminated.

Eye contact Rinse immediately with plenty of water and seek medical advice. Check for and remove

any contact lenses. Get medical attention immediately if symptoms occur.

Skin contact Remove contaminated clothing and shoes. Wash off with soap and water. Wash

contaminated clothing before reuse.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

Most important symptoms/effects, acute and delayed

Skin contactNot classified. High pressure injection of the products under the skin may have very serious

consequences even though no symptom or injury may be apparent.

Eye contact Not classified. May cause eye irritation with susceptible persons.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.



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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Water spray. Dry chemical. Alcohol-resistant foam.

Large Fires Do not extinguish large gas fires unless the gas flow can be stopped.

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.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

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 Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

Other information See Section 12 for additional information.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from

entering drains or water courses. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for

disposal.

7. HANDLING AND STORAGE

Precautions for safe handling



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Advice on safe handling When using, do not eat, drink or smoke. 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.

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond containers, tanks

and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been

contaminated with product. Do not put product contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Protect from frost, heat and sunlight. Protect from moisture. Design equipment to avoid accidental product leakage (for example due to seal failure) onto hot casings or electrical contacts.

Materials to Avoid Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

Exposure controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

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.



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Hand Protection

Protective gloves. Rubber/latex/neoprene or other suitable chemical resistant gloves. Butyl rubber. Polyvinylchloride. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection

None required under normal usage. 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. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Color yellow-orange
Physical State @20°C liquid

Physical State @20°C liquid Odor Mild

Odor Threshold No information available

Property pH Melting point/range	<u>Values</u>	Remarks Not applicable No information available	<u>Method</u>
Boiling point/boiling range	> 200 °C > 392 °F		
Flash point	288 °C		Cleveland Open Cup (COC) ASTM D 92
	434.8 °F		Cleveland Open Cup (COC). ASTM D 92.
Evaporation rate		No information available	ACTIVID 62.
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	- < 0.0013 kPa	No information available @ 20 °C	ASTM E1719
Vapor Pressure Vapor density	< 0.0013 KFa > 10	(Air = 1)	ASTWELT 19
Relative density	1.041	@ 20 °C	ASTM D 1298
Density	1041 kg/m ³	@ 20 °C	
Water solubility		Not applicable	
Solubility in other solvents logPow		No information available No information available	



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@ 40 °C

No information available No information available

ASTM D 445

Autoignition temperature

Decomposition temperature

Viscosity, kinematic 70.3 - 77.7 mm2/s Explosive properties Not explosive

Oxidizing Properties
Possibility of hazardous reactions

Other information

Specific Gravity

Not applicable Not applicable

1.041 @ 15.6 °C

Freezing Point No information available

Pour point -51 °C ASTM D 97

10. STABILITY AND REACTIVITY

Reactivity No information available.

<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. Heat

(temperatures above flash point), sparks, ignition points, flames, static electricity. Strong

oxidizing agents.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products Organic acids. Ketones. Hydrocarbons. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Skin contact Not classified. High pressure injection of the products under the skin may have very serious

consequences even though no symptom or injury may be apparent.

Eye contact Not classified. May cause eye irritation with susceptible persons.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity Not applicable



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Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyalkylene glycol	LD50 8639 mg/kg (Rat)		LC50 (4h) > 5 mg/l (Rat - Aerosol)
^			

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Sensitization Not classified as a sensitizer.

Carcinogenicity This product is not classified carcinogenic.

Mutagenicity Contains no ingredient listed as a mutagen.

Reproductive toxicity

Other adverse effects

This product does not present any known or suspected reproductive hazards.

Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

Aspiration Hazard Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and	Toxicity to
			other aquatic invertebrates	microorganisms
Polyalkylene glycol		LC50 (96h) 24500 mg/l	EC50 (48h) 21000 mg/l	
^		(Pimephales promelas -	(daphnia magna - Static)	
		Static)		

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

No information available

Effects on terrestrial organisms No experimental data available .



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Persistence and degradability

General Information Readily biodegradable.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

Soil No information available

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with local regulations. Should not be released into the

environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Can be landfilled or incinerated, when in compliance with local

regulations.

Contaminated packaging Dispose of in accordance with local regulations.

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



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15. REGULATORY INFORMATION

following inventories:

U.S.A. (TSCA)

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.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
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 does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

No information available

EPA Statement

This product is U.S. EPA VGP compliant

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



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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

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Revision Note No information available

Abbreviations, acronyms

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

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