

MATERIAL SAFETY DATA SHEET

(USA)

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

Version: 3

Revision date: 15 April 2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Code: J580
Product Name: Water Gelling Agent J580
Company Identification: Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, Texas 77478, USA
Telephone: 1-281-285-7873
Emergency Telephone Number: USA: +1-281-595-3518 (24hr)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Main physical hazards: No classified physical hazards.
Main health hazards: Respirable dust. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. May cause mechanical irritation to eyes.
Other Information: Suspended dust may present a dust explosion hazard. Contaminated surfaces will be extremely slippery when wet.
Precautions: Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe dust.
HMIS classification: Health: 0 Flammability: 1 Physical hazard: 0

Form: Powder

Color: Light yellow

Odor: Mild

Principle routes of exposure:

Inhalation. Eye contact. Skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %- Range
Carbohydrate polymer	Proprietary	60-100

4. FIRST AID MEASURES

Eye contact: Rinse with plenty of water. Seek medical attention if irritation occurs.
Skin contact: Wash off with soap and water.
Ingestion: Rinse mouth. Obtain medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Fire hazard: Combustible material.
Flash point: Not applicable.
Autoignition temperature: No data available.
Flammability limits in air:
Lower: Not determined.
Upper: Not determined.
Oxidizing properties: None.

Suitable extinguishing media:
Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Extinguishing media which must not be used for safety reasons:
None known.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:
Slick when wet.

Other information:
Suspended dust may present a dust explosion hazard. Solutions extremely slippery when spilled.

Special protective equipment for firefighters:
Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA rating:
Health: 1
Flammability: 1
Instability: 0
Special: None

6. ACCIDENTAL RELEASE MEASURES

Main physical hazards: No classified physical hazards.
Other Information: Suspended dust may present a dust explosion hazard. Contaminated surfaces will be extremely slippery when wet.
Personal precautions: Do not breathe dust.
Methods for cleaning up: Scoop into containers. Avoid generating dust. Use water carefully; slick when wet. If vacuum sweeper is used, it must be rated to handle explosive dusts.
Environmental precautions: Prevent product from entering drains.

7. HANDLING AND STORAGE

Handling:
Precautions: Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe dust.
Safe handling advice: Ensure adequate ventilation.
Technical measures/ storage conditions: Keep material dry.
Packaging requirements: Polyethylene bag or drum with polyethylene liner.
Incompatible products: Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	Control the source. Enclosure of the process. Other suitable methods.
Hygiene measures:	Exercise reasonable care and cleanliness. Do not breathe dust.
Respiratory protection:	If dust or mist is generated use NIOSH approved respirator with dust and mist protection (3M 8210).
Eye protection:	It is good practice to wear goggles when handling any chemical.
Hand protection:	Rubber or plastic gloves.
Skin and body protection:	Clean, body-covering clothing.

Occupational Exposure Limits

Component	ACGIH - TLVs			OSHA - PELs		
	TWA / Ceiling	STEL	ACGIH - Skin	TWA / C	STEL	Final PELs - Skin
Carbohydrate polymer	-	-	-	-	-	-

Particles Not Otherwise Regulated/Specified [PNOR or PNOS] (insoluble or poorly soluble):

- OSHA PEL's for Inert or Nuisance Dust are covered by PNOR limits: respirable fraction: 5 mg/m³; total dust 15 mg/m³.
ACGIH PNOS Recommendations: airborne concentrations should be kept below 3 mg/m³, respirable particulate, and 10 mg/m³, inhalable particles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical characterization:	Carbohydrates
Fire hazard:	Combustible material.
Form:	Powder
Color:	Light yellow
Odor:	Mild
Odor threshold:	Not applicable.
pH:	5.5 - 7.5
pH concentration:	10 g/l
Boiling point/range:	Not applicable.
Flash point:	Not applicable.
Flammability limits in air:	
Lower:	Not determined.
Upper:	Not determined.
Bulk density:	Approximately 730 kg/m ³
Melting point/range:	Decomposes
Decomposition temperature:	> 242 °C / 468 °F
Solubility:	
Water solubility:	Gels on contact with water.
Fat solubility:	Insoluble.
Partition coefficient (n-octanol/water):	Does not bioaccumulate.
Relative density:	0.7 (@ 25°C)
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Viscosity:	Not applicable.
Evaporation rate:	Not applicable.
% Volatile (VOC):	None.

10. STABILITY AND REACTIVITY**Stability:**

Stable at normal conditions.

Conditions to avoid:

Avoid dust formation.

Incompatibility with other substances:

Oxidizers.

Hazardous decomposition products:

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

Hazardous polymerization:

Hazardous polymerization does not occur.

Other Information:

Suspended dust may present a dust explosion hazard. Contaminated surfaces will be extremely slippery when wet.

11. TOXICOLOGICAL INFORMATION**PRODUCT TOXICOLOGICAL INFORMATION****Acute Health Hazard****Eye contact:**

May cause mechanical irritation.

Skin contact:

No effect expected.

Ingestion:

Accidental ingestion of small amounts is not expected to cause adverse effects. Swallowing large amounts may be harmful.

Inhalation:

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Sensitization - lung:

Not known to cause allergic reaction.

Sensitization - skin:

Not known to cause allergic reaction.

Toxicologically synergistic products:

None known.

Chronic Health Hazard**Carcinogenic effects:**

None known.

Mutagenic effects:

Not known to cause heritable genetic damage.

Teratogenic effects:

Not known to cause birth defects or have a deleterious effect on a developing fetus.

Reproductive toxicity:

Not known to adversely affect reproductive functions and organs.

Target organ effects:

None known.

COMPONENT TOXICOLOGICAL INFORMATION

Component	Target Organ Effects	LD50 / LC50
Carbohydrate polymer	-	= 6770 mg/kg (Oral LD50; Rat)

Component	IARC Group 1 or 2:	ACGIH - Carcinogens:	OSHA Listed Carcinogens	NTP:

Carbohydrate polymer	-	-	-	-
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12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION

Ecotoxicity effects: This product has no known eco-toxicological effects.

COMPONENT INFORMATION

Carbohydrate polymer
Bioaccumulation: Does not bioaccumulate
Persistence / degradability: Readily biodegradable.
Other information: Listed on PLONOR list of OSPAR

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Contaminated packaging:

Dispose of in accordance with local regulations. Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

EPA RCRA Hazardous Waste Code:

None

14. TRANSPORT INFORMATION

DOT:

CERCLA RQ: None
Hazard class: Not regulated.
Proper shipping name: Not regulated
Label(s): None required.

IMDG/IMO

Shipping name: Not regulated.
UN number: None

ICAO/IATA

Shipping name: Not regulated.
UN number: None

TDG (Canada):

Shipping name: Not regulated.

PIN: None

Note 1:

For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. REGULATORY INFORMATION

International Chemical Inventories

USA, Toxic Substances Control Act inventory (TSCA): This product complies with TSCA requirements.

IMPORTS, USA: No import volume restrictions.

Canada, Domestic Substance List (DSL): This product complies with DSL requirements.

IMPORTS, Canada: No import volume restrictions.

U.S.A. Regulations

OSHA Hazard Communication Standard:
(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:
None

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard:	None
Delayed (Chronic) Health Hazard:	None
Fire Hazard:	None
Sudden Release or Pressure Hazard:	None
Reactive Hazard:	None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):
This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information

Carbohydrate polymer

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4): None

CERCLA/SARA - Hazardous Substances and their RQs: None

EPA, SARA TITLE III Section 304, Extremely Hazardous Substances (40 CFR 355.40): None

California Proposition 65: None

International Hazard Class

WHMIS Hazard Class:
Non-controlled product.

16. OTHER INFORMATION**Current references:**

1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. *American Conference of Governmental Industrial Hygienists, Cincinnati OH.*
2. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. *World Health Organization, International Agency for Research on Cancer. Geneva, Switzerland.*
3. Annual Report on Carcinogens. National Toxicology Program. *U.S. Department of Health and Human Services, Public Health Service.*
4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). *National Institute for Occupational Safety and Health. Cincinnati, OH.*
5. LOLI Database.

Explanation of terms:

ACGIH:	American Conference of Governmental Industrial Hygienist
ACGIH-TL:	Threshold Limit Value
DSL:	Domestic Substance List
HMIRC:	Hazardous Materials Information Review Commission
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
NIOSH:	National Institute of Occupational Safety & Health
NIOSH-REL:	Recommended Exposure Limit
OSHA:	Occupational Safety & Health Administration
OSHA-PEL:	Permissible Exposure Limit
TSCA:	Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling Limit; units: [mg/m³]

ACGIH Notations:

"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance.

"A" notation indicates carcinogenicity as follows:

ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.

"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

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Prepared by: Chemical Regulatory Compliance (CRC).

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End of the Material Safety Data Sheet