
SAFETY DATA SHEET according to Regulation (EC) No. 1272/2008

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label: SMARTFLOW 80

Supplier : SynOil Energy Services

2000, 300 – 5th Avenue SW

Calgary, Alberta T2P 3C4

Phone: (403) 261 – 2713

Fax: (403) 261 – 3864

Toll Free: 1 – 888 – 479 – 6645

Emergency call(24h): 1-888-479-6645

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Not classified.

Health Hazards:

Specific target organ toxicity-Single exposure category I (Central nervous system, blood system, kidney)

Specific target organ toxicity-single exposure category 3(Respiratory tract irritation, Narcotic effects)

Environmental Hazards:

Classification not possible

The hazards not mentioned are not applicable or no data available.

Label Elements:**Pictogram:****GHS Signal Word:** Danger**GHS Hazard Statement:**

H370 Causes damage to organs (Central nervous system, blood system, kidney).

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

GHS Precautionary Statements:**Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

Response:

P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P316 IF exposed or concerned: get emergency medical help immediately.

Storage:

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/ national/ international regulation.

Other Hazards:

This product contains N3,N3',N4,N4'-tetraoctyl-[1,1'-biphenyl]-3,3',4,4'-tetracarboxamide (DBTA8) which lacks data or information for classification, and may have potentially unknown hazards to human health and the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product name: Smartflow80

Ingredient:	CAS #:	% Wt. or Range ;	EC No.
Ethylene Glycol	107-21-1	20	203-473-0
N3,N3',N4,N4'-tetraoctyl-[1,1'-biphenyl]-3,3',4,4'-tetracarboxamide (DBTA8)	2169674-18-2	80	///

4 - First Aid Measures**Skin Exposure:**

In case of skin contact, wash off with soap and plenty of water. If irritation persists, call physician.

Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most important symptoms and effects, both acute and delayed.

No data available.

Indication of any immediate medical attention and special treatment needed:

No data available.

5 - Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, water in large amounts, carbon dioxide or appropriate foam.

Specific Hazards arising from the Chemical:

Take care as it may decompose upon combustion or in high temperature to generate carbon oxides, Nitrogen oxides.

Advice for Fire-fighters:

Protective Equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

6 - Accidental Release Measures**Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment (self-contained breathing apparatus).

Remove all sources of ignition. Do not breathe dust.

Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

Entry to noninvolved personnel should be controlled around leakage by roping off, etc.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid enter drains.

Methods and Materials for Containment and Cleaning Up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is completed.

7 - Handling and Storage

Precautions for Safe Handling: Wear suitable protective equipment. Prevent generation of vapor or mist. Avoid contact with skin, eyes and clothing. Handling is performed in a well ventilated place. Keep away from ignition source, heat and flame. Wash hands and face thoroughly after handling. No smoking at working site.

Conditions for Safe Storage, Including any Incompatibilities:

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Keep away from ignition sources, heat and flame. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

8 - Exposure Controls / Personal Protection

Control Parameters: Not set up.

Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Personal Protection:

Eye/ Face Protection: Safety goggles. A face shield if the situation requires it.

Skin Protection: Impervious protective clothing. Protective boots if the situation requires it.

Hand: Wear chemically impervious gloves

Respiratory Protection: Use respirators approved under appropriate government standards and follow local and national regulations.

Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling.

9 - Physical and Chemical Properties

Appearance:	White sticky solids
Physical State:	Solids
Color:	White
Odor:	weak odor
Odor Threshold:	No data available
pH:	No data available
Solubility(ies):	Hardly soluble in water
Melting/ Freezing Point:	>150°C softening
Partition Coefficient:	No data available
Initial Boiling Point/Boiling Range:	No data available
Auto-Ignition Temperature:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (Solid, Gas):	Not classified in Division 4.1 flammable solid
Upper/ Lower Flammability or Explosive Limits:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10 - Stability and Reactivity

Reactivity: No data available

Possibility of Hazardous Reactions: Stable under normal temperature and pressure.

Conditions to Avoid: No data available.

Chemical stability: Stable under normal temperature and pressures.

Incompatible Materials: No data available.

Hazardous Decomposition Products:

Carbon oxides, Nitrogen oxides.

11 - Toxicological Information

Acute Toxicity: Oral rat, LD₅₀: 4700 uL/kg

Rat Inhalation LC₅₀: 10876mg/kg

Rabbit Dermal LD₅₀: 9530 uL/kg

Skin Corrosion/ Irritation: This product is not corrosive to rabbit skin after contacts for 4 hours and observations for 7days (OECD Test guideline 404)

Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

STOT-single Exposure: Causes damage to organs (central nervous system, blood system, kidney)

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated Exposure No data available

Aspiration Hazard: No data available

12 - Ecological Information

Ecotoxicity:

Ethylene glycol: Toxicity to fish static test LC₅₀-Pimeohales promelas(fathead minnow)->72860mg/l-96H

(US-EPA)

Toxicity to daphnia and other aquatic invertebrates static test EC₅₀-Daphnia magna (water flea)->100mg/l-48h (OECD test guideline 202)

Toxicity to algae IC₅-Scenedesmus quadricauda (Green algae)->10000mg/l -7d remarks:(Lit.)

Persistence and Degradability:

Ethylene glycol: biodegradability aerobic-Exposure time 10d

Result: 90-100%-Readily biodegradable. (OECD TEST Guideline 301A)

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other adverse effects: No data available.

13 - Disposal Considerations

Regulatory Disposal Information:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipment with and after burner and scrubber. Observe all federal, state and local environment regulations.

14 - Transport Information

RID/ ADR: The substance is not subject to RID/ADR.

IATA DGR: The substance is not subject to IATA DGR.

IMO IMDG Code: The substance is not subject to IMO IMDG Code.

15 - Regulatory Information

Regulation (EC) No. 1272/2008 and the amendments:

Specific target organ toxicity-Single exposure Category 1 (Central nervous system, Blood system, Kidney)

Specific target organ toxicity-Single exposure Category 3(Respiratory tract irritation, Narcotic effects)

16. OTHER INFORMATION

Date: 2020-04-03

Reference Standard:

Globally Harmonized System of Classification and labelling of Chemical (GHS), 8th revised edition.

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising from using the above information.