

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/28/2016

Reviewed on 02/28/2016

### \* 1 Identification

· **Product Identifier**

· **Trade name: NuFlo 148**

· **Product Number:** ofc-148

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Product Description** PC35 Washing and cleaning products (including solvent based products)

· **Application of the substance / the mixture:** Paraffin and Asphaltene Remover

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

NuGenTec Oilfield Chemicals

1155 Park Avenue, Emeryville, CA 94608

ofcadmin@nugentec.com

888-996-8436 or 707-891-3012 for product information

[www.nugentec.com/oilfield](http://www.nugentec.com/oilfield)

· **Emergency telephone number:**

PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

### \* 2 Hazard(s) Identification

· **Classification of the substance or mixture:**



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Flam. Liq. 4 H227 Combustible liquid.

· **Label elements:**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Heavy naphtha distillates

Solvent naphtha (petroleum), medium aliph.

· **Hazard statements:**

H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements:**

P210 Keep away from flames and hot surfaces. – No smoking.

P280 Wear protective gloves / eye protection / face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

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

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- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

- **Hazard(s) not otherwise classified (HNOC):**  
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

**\* 3 Composition/Information on Ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with non-hazardous additions.

· <b>Dangerous Components:</b>		
Heavy naphtha distillates	☠ Asp. Tox. 1, H304	25-50%
Solvent naphtha (petroleum), medium aliph.	🔥 Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304	25-50%
Mixture of surfactants	⚠ Acute Tox. 4, H302	≤ 2.5%

**\* 4 First-Aid Measures**

- **Description of first aid measures:**
- **General information:**  
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

**\* 5 Fire-Fighting Measures**

- **Extinguishing media:**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:**  
Combustible liquid. Vapors can travel to a source of ignition and flash back.  
Explosive mixtures may occur at temperatures at or above flashpoint.

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- **Advice for firefighters:**
- **Protective equipment:**  
Mouth respiratory protective device.  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### \* 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s):** No further relevant information available.

### \* 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

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· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Not required.

· **Penetration time of glove material:** Not applicable.

· **Eye protection:**



Goggles recommended during refilling.

### \* 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Light brown
· <b>Odor:</b>	Product specific
· <b>Odor threshold:</b>	Not determined.

· **pH-value @ 20 °C (68 °F):** 7

· **Change in condition**

· <b>Melting point/Melting range:</b>	--
· <b>Boiling point/Boiling range:</b>	150 °C (302 °F)

· **Flash point:** 64 °C (147 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 265 °C (509 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· <b>Lower:</b>	0.6 Vol %
· <b>Upper:</b>	6.5 Vol %

· **Vapor pressure @ 20 °C (68 °F):** 6.6 hPa (5 mm Hg)

· **Density @ 20 °C (68 °F):** 0.851 g/cm<sup>3</sup> (7.102 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**

· **Water:** Fully miscible.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic @ 20 °C (68 °F):** 1 mPas
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 46.0 %
  - VOC content:** 46.0 %
- **Other information:** No further relevant information available.

### \* 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### \* 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

<b>LD/LC50 values that are relevant for classification:</b>		
<b>Heavy naphtha distillates</b>		
Dermal	LD50	>2000 mg/kg (rabbit)
<b>Solvent naphtha (petroleum), medium aliph.</b>		
Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)
	LC50/48 hrs	800 mg/l (daphnia)
<b>Mixture of surfactants</b>		
Oral	LD50	1400 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

- **Carcinogenic categories:**

<b>IARC (International Agency for Research on Cancer):</b>
None of the ingredients are listed.

<b>NTP (National Toxicology Program):</b>
None of the ingredients are listed.

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**Trade name: NuFlo 148****· OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**\* 12 Ecological Information****· Toxicity:****· Aquatic toxicity:****Heavy naphtha distillates**

EC50 41 mg/l (Fathead Minnow)

**Mixture of surfactants**

EC50 5.5 mg/l (Fathead Minnow)

**· Persistence and degradability:** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Additional ecological information:****· General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**· Results of PBT and vPvB assessment:****· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.**\* 13 Disposal Considerations****· Waste treatment methods:****· Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

**· Uncleaned packagings****· Recommendation:** Disposal must be made according to official regulations.**· Recommended cleansing agent:** Water, if necessary with cleansing agents.**\* 14 Transport Information****· UN-Number:****· DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

**· UN proper shipping name:****· DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

**· Transport hazard class(es):****· DOT, ADR, ADN, IMDG, IATA****· Class:**

Non-Regulated Material

**· Packing group:****· DOT, ADR, IMDG, IATA**

Non-Regulated Material

**· Environmental hazards:**

Not applicable.

**· Special precautions for user:**

Not applicable.

**· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

**· UN "Model Regulation":**

Non-Regulated Material

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**\* 15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>
Heavy naphtha distillates
Solvent naphtha (petroleum), medium aliph.
Mixture of surfactants

<ul style="list-style-type: none"> <li>· <b>California Proposition 65:</b></li> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>New Jersey Right-to-Know List:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>New Jersey Special Hazardous Substance List:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Pennsylvania Special Hazardous Substance List:</b></li> </ul>
None of the ingredients are listed.

- **Carcinogenic categories:**

<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value established by ACGIH):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b></li> </ul>
None of the ingredients are listed.

- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



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- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Heavy naphtha distillates  
Solvent naphtha (petroleum), medium aliph.
- **Hazard statements:**  
H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements:**  
P210 Keep away from flames and hot surfaces. – No smoking.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
P405 Store locked up.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 02/28/2016 / 7

**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Flam. Liq. 4: Flammable liquids, Hazard Category 4  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

- **\* Data compared to the previous version altered.**

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