

Safety Data Sheet (SDS)

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

Issue date 07/30/2015

Reviewed on 07/30/2015

* 1 Identification

- **Product identifier**
- **Trade name: NuFlo DeScale CA50S**
- **Product number:** ofc-NF-CA50S
- **Relevant identified uses of the substance or mixture and uses advised against:**
Calcium & Magnesium Carbonate Scale Remover with Surfactant
- **Product description** PC35 Washing and cleaning products (including solvent based products)
- **Details of the supplier of the safety data sheet:**
- **Manufacturer/Supplier:**
NuGenTec Oilfield Chemicals
1155 Park Avenue, Emeryville, CA 94608
ofcadmin@nugentec.com www.nugentec.com/oilfield
888-996-8436 or 707-891-3012 for product information
- **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:**



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

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



GHS07

- **Signal word:** Warning
- **Hazard statements:**
Causes serious eye irritation.
- **Precautionary statements:**
Wear eye protection / face protection.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

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

· **Hazard(s) not otherwise classified (HNOC):** None known

* **3 Composition/information on ingredients**

2781-11-5	Phosphonic Acid, [[Bis(2- Hydroxyethyl)Amino]Methyl]-, Diethyl Ester Flam. Liq. 4, H227	25-50%
	Trade Secret	5-10%
7732-18-5	Water, distilled water, deionized water	25-50%

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous Components:**

CAS: 60-00-4 RTECS: AH 4375000	edetic acid	⚠ Eye Irrit. 2A, H319	25-50%
	TRADE SECRET	⚠ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	≤ 2.5%

* **4 First-aid measures**

· **Description of first aid measures:**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Do not induce vomiting.
If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration). Once the vomiting ceases, place the person in the recovery position with the legs slightly raised.
- **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:**
If incinerated, product will release the following toxic fumes: Oxides of Carbon, Nitrogen (NO_x) and Sulfur.
- **Advice for firefighters:**
- **Protective equipment:**
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:**
Ensure adequate ventilation.

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Keep people at a distance and stay upwind.

Keep away from ignition sources

· **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 (ie. sand, diatomite, universal binders), do NOT use sawdust.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

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:** No special precautions are necessary if used correctly.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities:**

Store away from strong acids, strong bases, strong oxidizing agents and strong reducing agents.

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **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.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:** Not required.

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

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

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· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective work clothing

* 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Liquid
· Color:	Light yellow
· Odor:	Light
· Odor threshold:	Not determined.

· pH-value @ 20 °C (68 °F):	8.5
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· **Change in condition**

· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	100 °C (212 °F)

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	388 °C (730 °F)
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· Decomposition temperature:	Not determined.
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· Auto igniting:	Product is not self-igniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· **Explosion limits:**

· Lower:	0.0 Vol %
· Upper:	0.0 Vol %

· Vapor pressure @ 20 °C (68 °F):	25 hPa (19 mm Hg)
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· Density @ 20 °C (68 °F):	0.947 g/cm ³ (7.903 lbs/gal)
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· Relative density:	Not determined.
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· Vapor density:	Not determined.
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· Evaporation rate:	Not determined.
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· **Solubility in / Miscibility with:**

· Water:	Fully miscible.
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· Partition coefficient (n-octanol/water):	Not determined.
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· **Viscosity:**

· Dynamic @ 20 °C (68 °F):	5 mPas
· Kinematic:	Not determined.

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- **Solvent content:**
 - **Organic solvents:** 0.0 %
 - **Water:** 29.0 %
- **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:** Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:** Oxides of Carbon, Nitrogen (NOx) and Sulfur.

* 11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**

60-00-4 edetic acid

Oral	LD50	4500 mg/kg (rat)
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- **Primary irritant effect:**

- **On the skin:** No irritating effect.

- **On the eye:** Irritating effect.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to its carcinogenicity to humans
- Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

* 12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **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.

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- **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:** Dispose of as unused product.
- **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.
- **Transport/Additional information:**
- **IATA** Limited Quantity Packaging Instruction: Y344
Limited Quantity Max: 10 L
Passenger Air Packaging Instruction: 355
Passenger Air Max**: 25 L
- **UN "Model Regulation":** **Packages must not exceed 30 kg gross weight.
Non-Regulated Material

* 15 Regulatory information

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

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

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<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act):
All ingredients are listed.
<ul style="list-style-type: none"> · California Proposition 65:
<ul style="list-style-type: none"> · Chemicals known to cause cancer:
None of the ingredients are listed.
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.
<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:
None of the ingredients are listed.
<ul style="list-style-type: none"> · Carcinogenic categories:
<ul style="list-style-type: none"> · EPA (Environmental Protection Agency):
None of the ingredients are listed.
<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH):
None of the ingredients are listed.
<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health):
None of the ingredients are listed.

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

· **Hazard pictograms:**



GHS07

· **Signal word:** Warning

· **Hazard statements:**

Causes serious eye irritation.

· **Precautionary statements:**

Wear eye protection / face protection.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

<ul style="list-style-type: none"> · National regulations: 		
The product is subject to be classified according with the latest version of the regulations on hazardous substances.		
<ul style="list-style-type: none"> · State Right to Know: 		
CAS: 60-00-4	edetic acid	25-50%
RTECS: AH 4375000	⚠ Eye Irrit. 2A, H319	
CAS: 2781-11-5	Phosphonic Acid, [[Bis(2- Hydroxyethyl)Amino]Methyl]-, Diethyl Ester	25-50%
	Flam. Liq. 4, H227	
CAS: 7732-18-5	Water, distilled water, deionized water	25-50%

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	Trade Secret	5-10%
	TRADE SECRET	≤ 2.5%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
All ingredients are listed.		

· **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:** 07/30/2015 / 4

· **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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

· *** Data compared to the previous version altered.**

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