

HELIT - HELIT

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : HELIT Product code : HELIT.

1.2. Relevant identified uses of the substance or mixture and uses advised against Precision Cleaning for Ultrasonic processes

1.3. Details of the supplier of the safety data sheet

Registered company name : NGL CLEANING TECHNOLOGY SA. Address : Chemin de la Vuarpillière 7.CH-1260.NYON.SUISSE. Telephone : 00.41.(0).22.365.46.66. Fax : 00.41.(0).22.361.81.03. ngl@ngl-group.com www.ngl-group.com

1.4. Emergency telephone number : Urgence 145 24h/24h.

Association/Organisation : Centre Suisse Antipoison - Freiestrasse 16 - CH-8032 Zurich-.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Skin irritation (Xi, R 38).

Serious eye damage (Xi, R 41).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Detergent mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05 Signal Word : DANGER Product identifiers : EC 268-934-3 AMIDES, C12-18, N,N-BIS(HYDROXYETHYL) Hazard statements : H315 Causes skin irritation.



Date : 29/05/2015 Page 2/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

H318	Causes serious eye damage.
Precautionary statements - Prevention :	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

(EC) 1272/2008	67/548/EEC	Note	%
GHS05	Xi		2.5 <= x % < 10
Dgr	Xi;R41-R38		
Skin Irrit. 2, H315			
Eye Dam. 1, H318			
GHS07	Xi		2.5 <= x % < 10
Wng	Xi;R36-R38		
Skin Irrit. 2, H315			
Eye Irrit. 2, H319			
GHS07, GHS05, GHS08	Xn	[1]	0 <= x % < 2
Dgr	Xn;R48/22-R22		
Acute Tox. 4, H302	Xi;R38-R41		
Skin Irrit. 2, H315			
Eye Dam. 1, H318			
STOT RE 2, H373			
GHS07, GHS05	Xn		0 <= x % < 2
Dgr	Xn;R22		
Acute Tox. 4, H302	Xi;R41		
Eye Dam. 1, H318			
-			
	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 GHS07, GHS05 Dgr Acute Tox. 4, H302	GHS05 Xi Dgr Xi;R41-R38 Skin Irrit. 2, H315 Xi;R41-R38 GHS07 Xi Wng Xi;R36-R38 Skin Irrit. 2, H315 Xi;R36-R38 Eye Irrit. 2, H319 Xi GHS07, GHS05, GHS08 Xn Dgr Xn;R48/22-R22 Acute Tox. 4, H302 Xi;R38-R41 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 GHS07, GHS05 GHS07, GHS05 Xn Dgr Xn;R22 Acute Tox. 4, H302 Xi;R41 Eye Dam. 1, H318 Xn	GHS05 Xi Dgr Xi;R41-R38 Skin Irrit. 2, H315 Xi;R41-R38 GHS07 Xi Wng Xi;R36-R38 Skin Irrit. 2, H315 Xi;R36-R38 Eye Irrit. 2, H319 Xi GHS07, GHS05, GHS08 Xn Dgr Xn;R48/22-R22 Acute Tox. 4, H302 Xi;R38-R41 Skin Irrit. 2, H315 Xi;R38-R41 Eye Dam. 1, H318 STOT RE 2, H373 GHS07, GHS05 Xn Dgr Xn;R22 Acute Tox. 4, H302 Xi;R41 Eye Dam. 1, H318 Xn

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.



Date : 29/05/2015 Page 3/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO2)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.



Date : 29/05/2015 Page 4/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

Minor spill: Soak up with inert absorbent material

Pumping the product into a container and clean the floor with water

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Stock between 5 °C and 40°C in a dry, well ventilated place

Storage

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : CAS TWA: STEL: Ceiling: Definition: Criteria :

111-42-2	2 mg/m3	-	-	-	-	
- France (INRS - E	D984 :2008) :					
CAS	VME-ppm :	VME-mg/m3	: VLE-ppm :	VLE-mg/m3:	Notes :	TMP No :
111-42-2	3	15	-	-	-	49.49 Bis

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.



HELIT - HELIT

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :	
Physical state :	Viscous liquid.
Odour:	caracteristic
Color:	red
Important health, safety and environmental information	
pH :	7.80 .
	Neutral.
pH (aqueous solution) :	7.8
Boiling point/boiling range :	Not specified.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	1.036
Miscibility :	100%
Water solubility :	Dilutable.
Melting point/melting range :	Not specified.



Date : 29/05/2015 Page 6/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.
% VOC :	0%
9.2. Other information	
VOC (g/l) :	0.00

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

11.1.1. Substances

Acute toxicity :

HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9) Oral route : LD50 > 2000 mg/kg Spacias : Pat

Species : Rat

2,2'-DIHYDROXYDIETHYLAMINE (CAS: 111-42-2) Oral route : LD5

LD50 < 1600 mg/kg Species : Rat

11.1.2. Mixture

No toxicological data available for the mixture.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 111-42-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.



Date : 29/05/2015 Page 7/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

CAS 68603-42-9 : IARC Group 2B : The agent is possibly carcinogenic to humans.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9) Fish toxicity : LC50 > 100 mg/l Species : Leuciscus idus

	Duration of exposure : 96 h
Crustacean toxicity :	EC50 > 100 mg/l Species : Daphnia magna

Algae toxicity :

Duration of exposure : 48 h ECr50 > 100 mg/l

Species : Scenedesmus sp. Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9) Biodegradability : Not fast degrading.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

07 06 04 * other organic solvents, washing liquids and mother liquors



Date : 29/05/2015 Page 8/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- Container information:
- No data available.
- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :

Irritant	
Risk phrase :	
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
Safety phrase :	
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 39	Wear eye/face protection.
S 36/37	Wear suitable protective clothing and gloves.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



Date : 29/05/2015 Page 9/9 Revision : N°5 (27/05/2015)

HELIT - HELIT

S 60	This material and its container must be disposed of as hazardous waste.
Title for H, EUH and	1 R indications mentioned in section 3 :
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure .
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
R 48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Abbreviations :	

Abbreviati

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion