

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

Issue date 08/03/2016 Reviewed on 08/03/2016

1 Identification

- · Product Identifier
- · Trade name: NuBrite 55L
- · Product Number: ng-NB55L
- · Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

Use as directed my manufacturer.

· Product Description

Non-chromated, non-foaming product for deoxidizing and desmutting Aluminum, and removing mill scale and discoloration from Aluminum and its alloys.

- · Application of the substance / the mixture: Industry-specific application.
- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

NuGeneration Technologies, LLC (dba NuGenTec)

1155 Park Avenue, Emeryville, CA 94608

salesteam@nugentec.com

www.nugentec.com

1-888-996-8436 or 1-707-820-4080 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:



GHS03 Flame over circle

Ox. Liq. 3 H272 May intensify fire; oxidizer.



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements:
- · GHS label elements

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

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Trade name: NuBrite 55L

· Hazard pictograms:







GHS03 GHS05 GHS06

· Signal word: Danger

· Hazard-determining components of labeling:

Nitric Acid

Hydrofluoric acid Proprietary Salt

· Hazard statements:

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

· Precautionary statements:

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat.

P260 Do not breathe dusts or mists.

P220 Keep/Store away from clothing/combustible materials.
P280 Wear protective gloves / eye protection / face protection.

P280 Wear protective gloves / protective clothing.
P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

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

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data

Sheet).

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

P363 Wash contaminated clothing before reuse.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

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

international regulations.

· Unknown acute toxicity:

35 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

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· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



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

3 Composition/Information on Ingredients

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

· Dangerous Components:				
	Proprietary Salt	35%		
CAS: 7697-37-2	Nitric Acid	15-35%		
	♦ Ox. Liq. 2, H272; ♦ Skin Corr. 1A, H314			
	Proprietary Salt	1.2%		
	♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302			
CAS: 7664-39-3	Hydrofluoric acid	≤2.5%		
RTECS: MW 7875000	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Skin Corr. 1A, H314			

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures:
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. Give oxygen or artificial respiration if needed. Lie victim down in the recovery position; cover to keep warm. Physicians should treat chronic exposure as chemical pneumonia. A 2.5% calcium gluconate solution in normal saline administered by nebulizer, or by ippb with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered. Monitor for hypocalcemia.

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· After skin contact:

Get immediate medical attention. Remove contaminated clothing immediately; wash before reuse. Promptly flush skin with water until all chemical is removed. Immediately apply Calcium Gluconate gel, 2.5%, and massage into the affected are using rubber gloves. Continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. If fingers/finger nails are touched, even if there is not pain, dip them in a bath of 5% Calcium Gluconate for 15 to 20 minutes. More serious skin exposure may require subcutaneous Calcium Gluconate gel, except for digital areas (unless the physician is experienced in this technique) due to potential for tissue injury from increased pressure. Absorption can readily occur in subungual areas and should be considered during decontamination.

· After eye contact:

Get immediate medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Rinse to eyes with a calcium gluconate, 1%, solution in physiological serum (10 ml of Calcium Gluconate 10% in 90 ml of physiological serum). In the case of difficulty of opening eyelids, administer an analgesic eye wash (oxybuprocaine).

· After swallowing:

Call a physician immediately. Take victim immediately to hospital. Prevention of absorption of the Fluoride ion can be obtained by giving a source of Calcium or Magnesium.

If victim is conscious: If swallowed, rinse mouth with water (only if the person is conscious). Give to drink one of the following: 3-4 glasses of milk, chewable calcium carbonate tablets, Milk of Magnesia or a 1% aqueous Calcium Gluconate solution. Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.

If victim in unconscious, but breathing: Artificial respiration and/or oxygen may be necessary.

· Information for doctor:

Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After initial decontamination with water, subsequent damage can occur due to penetration/absorption of the fluoride (F-) ion. Treatment should be directed toward binding the Fluoride ion as well as the effects of exposure. Show this Safety Data Sheet to the doctor in attendance. If possible, call ahead to hospital or paramedics and make them aware of the Hydrofluoric acid exposure risk to themselves, and so they may prepare the proper first aid treatments ahead of time. Conditions such as hypocalcemia, hypomagnesemia, cardiac arrhythmias and hyperalkemia should be monitored for, since they can occur after exposure. Renal dialysis may be necessary in some cases.

· Most important symptoms and effects, both acute and delayed:

Ingestion: Can cause irritation and severe corrosive burns to mouth, throat, and stomach, and may be fatal if swallowed.

Inhalation: Gases or acid mist can cause severe irritation or corrosive burns to the upper respiratory system, including nose, mouth, and throat. Lung irritation, nitrogen oxide poisoning, and pulmonary edema can also occur. May cause severe breathing difficulties which may be delayed in onset.

Skin: Can cause severe corrosive burns or irritation. May stain the skin bright yellow.

Eyes: Can cause irritation, corneal burns, conjunctivitis, and may cause blindness. Contact lenses should not be worn when working with this material.

Summary of Chronic Health Hazards: Long-term exposure to concentrated vapors may cause erosion of teeth and lung damage. Long-term exposures seldom occur due to the corrosive properties of the acid.

· Indication of any immediate medical attention and special treatment needed:

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Note to Physicians: Nitric Acid vapors contain nitrogen oxides. Acute overexposure by inhalation can result in delayed pulmonary edema. Observe affected patients for delayed effects up to 48 hours after exposure. Screen patients with chest x-ray, arterial blood gas, methemoglobinemia level, and pulmonary function tests. Bronchiolitis obliterans may develop weeks after exposure.

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 Iron, Sulfur, Nitrogen (NOx) and Potassium, and Hydrofluoric acid gas.

Advice for firefighters:

This product contains an oxidizer that will release oxygen upon decompostion in a fire and fuel fire additionally. Use extreme caution.

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:

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin, eyes and clothing.

Do not breathe vapor.

Remove persons from danger area.

Ensure adequate ventilation.

Keep people at a distance and stay upwind.

Treat any fumes as toxic.

Use respiratory protective device against the effects of fumes/dust/aerosol.

· Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

· Methods and material for containment and cleaning up:

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

Use neutralizing agent.

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.

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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:

Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, amines, organic materials, metals, powdered metals and metal oxides.

- 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:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Components with occupational exposure limits:					
Proprietary Salt					
REL	Long-term value: 1 mg/m³ as Fe				
TLV	Long-term value: 1 mg/m³ as Fe				
7697	-37-2 Nitric Acid				
PEL	Long-term value: 5 mg/m³, 2 ppm				
REL	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm				
TLV	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm				
Prop	rietary Salt				
TLV	Long-term value: 0.1 mg/m³ as Persulfates				

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7664-39-3 Hydrofluoric acid

PEL Long-term value: 3 ppm

as F

REL Long-term value: 2.5 mg/m³, 3 ppm

Ceiling limit value: 5* mg/m³, 6* ppm

*15-min. as F

TLV Long-term value: 0.41 mg/m³, 0.5 ppm

Ceiling limit value: 1.64 mg/m³, 2 ppm

as F; Skin, BEI

· Ingredients with biological limit values:

7664-39-3 Hydrofluoric acid

BEI 3 mg/g creatinine

urine

prior to shift

Fluorides (background, nonspecific)

10 mg/g creatinine

urine

end of shift

Fluorides (background, nonspecific)

- · 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Breathing equipment:



Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

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substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· 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: Amber
Odor: Pungent

· Odor threshold: Not determined.

· pH-value @ 20 °C (68 °F): < 1

· Change in condition

Melting point/Melting range: --

Boiling point/Boiling range: 83 °C (181 °F)

· Flash point: None

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: Not determined.
 Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: 0.0 Vol % **Upper:** 0.0 Vol %

· **Vapor pressure** @ **20 °C (68 °F)**: 23 hPa (17 mm Hg)

• **Density** @ **20** °**C** (**68** °**F**): 1.43 g/cm³ (11.933 lbs/gal)

Relative density: Not determined.Vapor density: Not determined.

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· Evaporation rate: Not determined.

· Solubility in / Miscibility with:

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic @ **20** °**C** (**68** °**F**): 1.3 mPas

Kinematic: Not determined.

· Solvent content:

 Organic solvents:
 0.0 %

 Water:
 49.4 %

 Solids content:
 36.2 %

· 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:

Most metals, metallic powders, alcohol, charcoal, turpentine, hydrogen sulfide, wood excelsior, paper, cotton and similar organic materials. Alkalies, carbon, carbonates, cyanides, diborane organic chemicals, fluorine, phosphine, sulfides, thiocyanates. Nitric Acid is corrosive or incompatible with many common materials including mild steel, PVC, Viton®, and rubber.

Viton® is a registered trademark of DuPont Dow Elastomers.

· Hazardous decomposition products:

Oxides of Iron, Sulfur, Nitrogen (NOx) and Potassium and Hydrofluoric acid gas.

11 Toxicological Information

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

· LD/LC50	· LD/LC50 values that are relevant for classification:				
7697-37-2	7697-37-2 Nitric Acid				
Oral	LD50	>90 mg/kg (rat)			
Proprieta	Proprietary Salt				
Oral	LD50	1000-2000 mg/kg (rat)			
Dermal	LD50	>11000 mg/kg (rabbit)			
Inhalative	LC50/4 h	>5 mg/l (rat)			
	LC50/96 hours	53 mg/l (Trout)			

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7664-39-3	7664-39-3 Hydrofluoric acid				
Oral	LD50	1276 mg/kg (rat)			
	LD50 Oral	80 ml/kg (Guinea Pig)			
Inhalative	LC50/4 h	2240 mg/l (rat)			

· Primary irritant effect:

- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

· Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· 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:

Proprietary Salt

EC50 3.5 mg/l (daphnia)

7664-39-3 Hydrofluoric acid

EC50 270 mg/l (Fathead Minnow)

· Persistence and degradability: No further relevant information available.

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

UN3264

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

- · Uncleaned packagings
- · Recommendation:

Disposal must be made according to official regulations.

Dispose of as unused product.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number:

· DOT, ADR, IMDG, IATA

· UN proper shipping name:

· DOT

ADR

· IMDG, IATA

Corrosive liquid, acidic, inorganic, n.o.s. UN3264 Corrosive liquid, acidic, inorganic, n.o.s.

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

· Transport hazard class(es):

· DOT



· Class: 8 Corrosive substances

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· Label: 8

· ADR



· Class: 8 (C1) Corrosive substances

· Label:

· IMDG, IATA



· Class: 8 Corrosive substances

· Label:

· Packing group:

· DOT, ADR, IMDG, IATA //

· Environmental hazards: Not applicable.

· Special precautions for user: Warning: Corrosive substances

Danger code (Kemler):
 EMS Number:
 Segregation groups:
 Acids

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· DOT

· Hazardous substance: 5000 lbs, 2270 kg

· ADR

• Excepted quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S., 8, II

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):

7697-37-2 Nitric Acid

7664-39-3 Hydrofluoric acid

Section 313 (Specific toxic chemical listings):

7697-37-2 Nitric Acid

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7664-39-3 Hydrofluoric acid · TSCA (Toxic Substances Control Act): All ingredients are listed or exempt from listing. · California Proposition 65: · Chemicals known to cause cancer: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: None of the ingredients are listed. · New Jersey Right-to-Know List: Proprietary Salt 7697-37-2 Nitric Acid 7664-39-3 Hydrofluoric acid · New Jersey Special Hazardous Substance List: 7697-37-2 Nitric Acid CO, R2 7664-39-3 Hydrofluoric acid CO, R1 · Pennsylvania Right-to-Know List: Proprietary Salt 7697-37-2 Nitric Acid 7664-39-3 Hydrofluoric acid · Pennsylvania Special Hazardous Substance List: Proprietary Salt Ε Ε 7697-37-2 Nitric Acid 7664-39-3 Hydrofluoric acid Ε · Carcinogenic categories: · EPA (Environmental Protection Agency): None of the ingredients are listed. · TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed. · 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).

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· Hazard pictograms:







GHS03 GHS05 GHS06

· Signal word: Danger

· Hazard-determining components of labeling:

Nitric Acid

Hydrofluoric acid Proprietary Salt

· Hazard statements:

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

· Precautionary statements:

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat.

P260 Do not breathe dusts or mists.

P220 Keep/Store away from clothing/combustible materials.
P280 Wear protective gloves / eye protection / face protection.

P280 Wear protective gloves / protective clothing.
P280 Wear eye protection / face protection.
P264 Wash thoroughly after handling.

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

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data

Sheet).

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

P363 Wash contaminated clothing before reuse.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

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.

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· 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: 08/03/2016 / -
- · 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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Ox. Liq. 2: Oxidizing liquids – Category 2 Ox. Liq. 3: Oxidizing liquids – Category 3

Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 3: Acute toxicity - Category 3

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

· * Data compared to the previous version altered.

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