

Safety Data Sheet dated 1/10/2024, version 13

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: GOMMA LUCIDA

Trade code: 8371

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Product to renew tyres and rubber parts

Uses advised against:

Strictly adhere to the recommended uses.

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063 Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306 In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111
In Ireland: emergency number 112

In South Africa: Poison Information Helpline 0861 555 777

In Malta: emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.



P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Regulation (EC) nr 648/2004 (detergents).

Product contents:

Non-ionic surfactants < 5 %
Aliphatic hydrocarbons 5 - 15 %

Preservatives: 2-phenoxyethanol.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| stta | Name | Ident. Numbe | er | Classification |
|-----------------------------|--------------------------------------|---|-------------------------|---|
| | Hydrocarbons, C3-4; Petroleum gas | Index number: CAS: EC: REACH No.: | 68476-40-4 270-681-9 | ◆2.2/1A Flam. Gas 1A H220◆2.5/L Press Gas (Liq.) H280DECLK (CLP)* |
| >= 0,1% - < 0,25% | sodium nitrite | Index number: CAS: EC: REACH No.: | 7632-00-0 231-555-9 | |
| >= 0,001% - < 0, 005% | sodium hydroxide; caustic soda | Index number: CAS: EC: REACH No.: | 1310-73-2 215-185-5 | ♦ 3.2/1A Skin Corr. 1A H314 ♦ 3.3/1 Eye Dam. 1 H318 ♦ 2.16/1 Met. Corr. 1 H290 Specific Concentration Limits: C >= 5%: Skin Corr. 1A H314 2% <= C < 5%: Skin Corr. 1B H314 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319 |

*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard



classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

Foam

Water spray.

Not Recommended Extinguishing Media:

Do not use direct water jets.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

For cleaning up:

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike,



absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.

Put dirty material in suitable container. Dispose of dirty material in accordance with local or national

regulations.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Only store in the original container.

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrocarbons, C3-4; Petroleum gas - CAS: 68476-40-4

MAK - TWA: 2400 mg/m3, 1000 ppm TLV TWA - 1900 mg/m3, 800 ppm

sodium hydroxide; caustic soda - CAS: 1310-73-2

20101.10 - TWA: 2 mg/m3

ACGIH - STEL: Ceiling 2 mg/m3 - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

sodium hydroxide; caustic soda - CAS: 1310-73-2

Worker Professional: 1 mg/m3 - Consumer: 1 mg/m3 - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

sodium nitrite - CAS: 7632-00-0

Target: Fresh Water - Value: 0.0054 mg/l Target: Marine water - Value: 0.00616 mg/l

Target: Marine water sediments - Value: 0.0223 mg/kg Target: Freshwater sediments - Value: 0.0195 mg/kg

Target: 09 - Value: 21 mg/l

8.2. Exposure controls

Eve protection:

Safety goggles.

Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Nitrile or Viton gloves.

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Compliant with EN 374.

Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm

Respiratory protection:

Use a suitable respiratory protection device.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: | |
|---|----------------|-------------------|--------|--|
| Physical state: | Liquid | | | |
| Colour: | White | | | |
| Odour: | Characteristic | | | |
| Melting point/freezing point: | N.A. | | | |
| Boiling point or initial boiling point and boiling range: | N.A. | | | |
| Flammability: | N.A. | | | |
| Lower and upper explosion limit: | N.A. | | | |
| Flash point: | -104°C | IP 170 | | |
| Auto-ignition temperature: | N.A. | | | |
| Decomposition temperature: | N.A. | | | |
| pH: | 10 | ASTM D1287 | | |
| Kinematic viscosity: | N.A. | | | |
| Solubility in water: | Soluble | | | |
| Solubility in oil: | N.A. | | | |
| Partition coefficient n- octanol/water (log value): | N.A. | | | |
| Vapour pressure: | N.A. | | | |
| Density and/or relative density: | 0.908 g/ml | ASTM D 4052-96 | | |
| Relative vapour density: | N.A. | | | |
| Particle characteristics: | | | | |



| Particle size: N | N.A. | | |
|------------------|------|--|--|
|------------------|------|--|--|

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:

GŎMMA LUCIDA

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:



sodium nitrite - CAS: 7632-00-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 180 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Hydrocarbons, C3-4; Petroleum gas - CAS: 68476-40-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 14.22 mg/l - Duration h: 48

sodium nitrite - CAS: 7632-00-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.54-26.3 mg/l - Duration h: 96 Endpoint: LC50 - Species: Daphnia 4.93 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 15.4 mg/l - Duration h: 48 - Notes: OECD 202 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: OECD 201

Endpoint: EC50 - Species: fanghi 421 mg/l - Duration h: 48

Endpoint: CE5 - Species: fanghi 210 mg/l - Duration h: 3 - Notes: OECD 209

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 6.16 mg/l - Duration h: 240 Endpoint: NOEC - Species: Daphnia 9.86 mg/l - Duration h: 744

sodium hydroxide; caustic soda - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 40.4 mg/l - Duration h: 48

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

sodium nitrite - CAS: 7632-00-0

Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

"Use in accordance with good working practices, avoiding dispersal in the environment. Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006). Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal



plants or incineration under controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number: 1950 IATA-UN Number: 1950 IMDG-UN Number: 1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable IATA-Shipping Name: AEROSOLS, flammable IMDG-Shipping Name: AEROSOLS, flammable

2

14.3. Transport hazard class(es)

ADR-Class: 2 ADR - Hazard identification number: IATA-Class: 2 IATA-Label: 2.1 IMDG-Class:

Sea (IMO): 2 UN 1950

14.4. Packing group

ADR-Packing Group: IATA-Packing group: IMDG-Packing group:

14.5. Environmental hazards

ADR-Environmental Pollutant: No IMDG-Marine pollutant: No IMDG-EmS: F-D S-U

14.6. Special precautions for user

ADR-Subsidiary hazards: See SP63 190 327 344 625 ADR-S.P.:

ADR-Transport category (Tunnel restriction code): 2 (D)

IATA-Passenger Aircraft: 203 IATA-Subsidiary hazards: See SP63 IATA-Cargo Aircraft: 203

IATA-S.P.: A145 A167 A802

IATA-ERG: 10L

IMDG-Subsidiary hazards: See SP63 IMDG-Stowage and handling: **SW1 SW22** IMDG-Segregation: SG69

14.7. Maritime transport in bulk according to IMO instruments

N.A.

Limited Quantity: 1 L Exempted Quantity: E0

SECTION 15: Regulatory information

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



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Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
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Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 75

Volatile Organic compounds - VOCs = 14.84 % Volatile Organic compounds - VOCs = 148.41 g/Kg Volatile Organic compounds - VOCs = 134.75 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

Hydrocarbons, C3-4; Petroleum gas

sodium nitrite

SECTION 16: Other information

Text of phrases referred to under heading 3:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H301 Toxic if swallowed.

H400 Very toxic to aquatic life.

H272 May intensify fire; oxidiser.



H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H290 May be corrosive to metals.

H315 Causes skin irritation.

| Hazard class and hazard category | Code | Description |
|----------------------------------|------------|---|
| Ox. Sol. 2 | 2.14/2 | Oxidising solid, Category 2 |
| Met. Corr. 1 | 2.16/1 | Substance or mixture corrosive to metals, Category 1 |
| Flam. Gas 1A | 2.2/1A | Flammable gas, Category 1A |
| Aerosols 1 | 2.3/1 | Aerosol, Category 1 |
| Press Gas (Liq.) | 2.5/L | Gases under pressure (Liquefied gas) |
| Acute Tox. 3 | 3.1/3/Oral | Acute toxicity (oral), Category 3 |
| Skin Corr. 1A | 3.2/1A | Skin corrosion, Category 1A |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Dam. 1 | 3.3/1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Aerosols 1, H222, H229 | On basis of test data |

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.



ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

NA: Not applicable

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.

Exposure Scenario, 17/07/2019

| Substance identity | |
|--------------------|---|
| Chemical name | IDROCARBURI C3-C4, Miscela (propano,butano,isobutano< 0,1% 1,3-Butadiene) |
| CAS No. | 68476-40-4 |
| EINECS No. | 270-681-9 |

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1. **ES 1** Use at industrial site

| 1. ES 1 Use a | t industrial site | |
|--|--|--|
| 1.1 TITLE SECTION | | |
| Exposure Scenario name | Use as a propellant | |
| Date - Version | 17/07/2019 - 1.0 | |
| Life Cycle Stage | Use at industrial site | |
| Main user group | Industrial uses | |
| Sector(s) of use | Industrial uses (SU3) | |
| Environment Contributing Sce | nario | |
| CS1 Covered by | | ERC4 |
| Worker Contributing Scenario | | |
| PROC1 - PROC2 - PROC3 - PROC8 PROC9 - PROC12 | | |
| 1.2 Conditions of use | affecting exposure | |
| 1.2. CS1: Environment Contrib | uting Scenario: Covered by (ERC4) | |
| Environmental release categories Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) | | o inclusion into or onto article) (ERC4) |
| 1.2. CS2: Worker Contributing | Scenario: Propellant (PROC1, PROC2, PROC3, PRO | OC8b, PROC9, PROC12) |
| Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Use of blowing agents in manufacture of foam (PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12) | | |
| Product (article) characteristics | | |
| Physical form of product: Liquid | | |

Vapour pressure:

> 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Keep drains in watertight containers while awaiting dismantling or subsequent recycling

Use in contained systems

Ensure operatives are trained to minimise exposures.

Ensure that direct skin contact is avoided.

Clear transfer lines prior to de-coupling.

Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.3 Exposure estimation and reference to its source

N/A

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Exposure Scenario, 01/08/2019

| Substance identity | | |
|--------------------|-------------------|--|
| Chemical name | SODIO NITRITO C/A | |
| CAS No. | 7632-00-0 | |
| EINECS No. | 231-555-9 | |

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1. **ES 1** Widespread use by professional workers; Various sectors (SU2b, SU17)

1. ES 1 Widespread use by professional workers; Various sectors (SU2b, SU17)

| 1.1 | TIT | . – . | · | ΓΙΟΝ |
|-----|-----|-------|-----------|------|
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| | | | , | |

| Exposure Scenario name | Corrosion inhibitor |
|------------------------|--|
| Date - Version | 01/08/2019 - 1.0 |
| Life Cycle Stage | Widespread use by professional workers |
| Main user group | Professional uses |
| Sector(s) of use | Offshore industries (SU2b) - Industrial uses (SU3) - General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment (SU17) - Professional uses (SU22) |

Environment Contributing Scenario

CS1 Covered by ERC7

Worker Contributing Scenario

CS2 General use from professional operators

PROC5 - PROC20 - PROC17

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Covered by (ERC7)

| Environmental release | Use of functional fluid at industrial site (ERC7 |
|-----------------------|---|
| categories | Ose of functional fluid at fludstrial site (ERC7) |

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual amount per site 1500000 kg

Release type: Continuous release

Emission days: 0 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant STP effluent (m³/day): 18000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 2000 m³/day

1.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC5, PROC20, PROC17)

| Process Categories | Mixing or blending in batch processes - Use of functional fluids in small devices - Lubrication |
|--------------------|---|
| Process categories | at high energy conditions in metal working operations (PROC5, PROC20, PROC17) |

Product (article) characteristics

Physical form of product:

Solid in solution

Concentration of substance in product:

Covers concentrations up to 10 %

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Covered by (ERC7)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air | 0 % | N/A |

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.