

## Safety Data Sheet dated 19/6/2021, version 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification: Trade name: Tyre spray Trade code: 31042 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use: Product to repair and inflate any kind of tyre 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: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 -22:00) 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.
 Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

2.2. Label elements

Hazard pictograms:



Danger Hazard statements:

H222 H220 Extremely flam

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated. H319 Causes serious eye irritation.

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.

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# Safety Data Sheet

## Tyre spray



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
- 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% 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: >= 50% < 60% Hydrocarbons, C3-4; Petroleum gas

  - DECLK (CLP)\*
- >= 3% < 5% ethanediol
- - Specific Concentration Limits: C >= 5%: STOT SE 3 H335

Acute Toxicity Estimate:

\*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3.

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## Tyre spray



## **SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

## In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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
  - None

4.3. Indication of any immediate medical attention and special treatment needed In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

None

#### **SECTION 5: Firefighting measures**

- 5.1. Extinguishing media
  - Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

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

Use suitable breathing apparatus . Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

#### **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 Wash with plenty of water.

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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

Store in well-closed containers, preferably in a cool place, away from sources of heat and direct sunlight.

Only store in the original container.

Avoid exposure to direct sunlight.

Store at temperatures below 50°C/122°F.

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 ethanediol - CAS: 107-21-1 20101.13 - TWA(8h): 52 mg/m3, 20 ppm - STEL(): 104 mg/m3, 40 ppm EU - TWA(8h): 52 mg/m3, 20 ppm - STEL: 104 mg/m3, 40 ppm - Notes: Skin ACGIH - TWA(8h): 25 ppm - STEL: 50 ppm - Notes: (V), A4 - URT irr ACGIH - STEL: 10 mg/m3 - Notes: (I, H), A4 - URT irr ammonia ....% - CAS: 1336-21-6 ACGIH - TWA: 17 mg/m3, 25 ppm - STEL: Ceiling 24 mg/m3, Ceiling 35 ppm - Notes: (NH3, 2005) **DNEL Exposure Limit Values** ethanediol - CAS: 107-21-1 Worker Professional: 35 mg/m3 - Consumer: 7 mg/m3 - Exposure: Human Inhalation -Frequency: Long Term, systemic effects Worker Professional: 106 mg/kg - Consumer: 53 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects ammonia ....% - CAS: 1336-21-6 Worker Professional: 14 mg/m3 - Consumer: 36 mg/m3 - Exposure: Human Dermal -Frequency: Long Term, systemic effects Worker Professional: 6.8 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects **PNEC Exposure Limit Values** ethanediol - CAS: 107-21-1

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Target: Fresh Water - Value: 10 mg/l Target: Marine water - Value: 1 mg/l Target: Freshwater sediments - Value: 37 mg/kg Target: Marine water sediments - Value: 3.7 mg/kg Target: 09 - Value: 199.5 mg/l ammonia ....% - CAS: 1336-21-6 Target: Fresh Water - Value: 0.0011 mg/l Target: Marine water - Value: 0.011 mg/l 8.2. Exposure controls Eye protection: Safety goggles. Compliant with EN 166 Protection for skin: protective clothing Protection for hands: Neoprene. Compliant with EN 374. Respiratory protection: Not required under normal conditions of use. Thermal Hazards:

None Environmental exposure controls: None Appropriate engineering controls:

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid Gas		
Colour:	white		
Odour:	Characteristic		
Melting point/freezing point:	<-100°C (propellant)		
Boiling point or initial boiling point and boiling range:	> -42°C (propellant)		
Flammability:	N.A.		
Lower and upper explosion limit:	LEL 1.8% (vol); UEL 9.5% (vol)		
Flash point:	<-80°C (propellant)		
Auto-ignition temperature:	>400°C		
Decomposition	N.A.		



temperature:			
pH:	N.A.		
Kinematic viscosity:	N.A.		
Solubility in water:	completa		
Solubility in oil:	N.A.		
Partition coefficient n- octanol/water (log value):	N.A.		
Vapour pressure:	5,5 bar		
Density and/or relative density:	0,64-0,69 g/ ml		
Relative vapour density:	> 2 (propellant)		
Particle characteristics:			
Particle size:	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 under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Excessive heat. Flames and other sources of ignition. Strong bases and acids.
- 10.5. Incompatible materials Strong oxidising agents, strong reducing agents.
- 10.6. Hazardous decomposition products

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product: INFLATE AND REPAIR SPRAY ML 300 a) acute toxicity Not classified Based on available data, the classification criteria are not met Test: oecd 10 - Route: Oral 394074.1 mg/kg - Notes: II prodotto, se portato a contatto con

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la pelle, provoca notevole infiammazione b) skin corrosion/irritation Not classified Based on available data, the classification criteria are not met c) serious eye damage/irritation The product is classified: Eye Irrit. 2 H319 Test: Eye Irritant - Route: EYE Positive 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: ethanediol - CAS: 107-21-1 a) acute toxicity: Test: LD50 - Route: Skin - Species: Rat 3500 mg/kg Test: LD50 - Route: Oral - Species: Rat 7712 mg/kg Test: LC50 - Route: Inhalation - Species: Rat 5 Ppm - Duration: 4h Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides - CAS: 308062-28-4 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 1064 mg/kg Test: LD50 - Route: Skin - Species: Rat 2100 mg/kg ammonia ....% - CAS: 1336-21-6 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 350 mg/kg Test: LC50 - Route: Inhalation - Species: Rat = 2000 mg/l - Duration: 4h 11.2. Information on other hazards Endocrine disrupting properties:

## 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 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides - CAS: 308062-28-4 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 2.67 mg/l

No endocrine disruptor substances present in concentration >= 0.1%

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Endpoint: EC50 - Species: Daphnia = 3.1 mg/l Endpoint: EC50 - Species: Algae = 0.266 mg/l ammonia ....% - CAS: 1336-21-6 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish 0.53 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 1.16 mg/l - Duration h: 24 12.2. Persistence and degradability None N.A. 12.3. Bioaccumulative potential N.A. 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:

Reuse if possible. Act in accordance with the local and national laws in force. Dispose of waste at suitable centres for the processing or disposal of waste in compliance with the laws and regulations in force and the characteristics of the product at the time of disposal. 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
14.3. Transport hazard class(es)	
ADR-Class:	2
ADR - Hazard identification nu	mber: -
IATA-Class:	2
IATA-Label:	2.1
IMDG-Class:	2
Sea (IMO):	2
14.4. Packing group	
ADR-Packing Group:	-

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IATA-Packing group: IMDG-Packing group: 14.5. Environmental hazards ADR-Enviromental Pollutant: IMDG-Marine pollutant: IMDG-EmS:	- - No F-D, S-U
14.6. Special precautions for user	
ADR-Subsidiary hazards:	See SP63
ADR-S.P.:	190 327 344 625
ADR-Transport category (Tunn	el 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 accor	ding to IMO instruments
No	
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 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) 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 40** Restrictions related to the substances contained: No restriction. Volatile Organic compounds - VOCs = 54.90 % Volatile Organic compounds - VOCs = 549.00 g/Kg Volatile Organic compounds - VOCs = 356.85 g/l Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) 31042/9 Page n. 9 of 12



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: None

## **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.

- H302 Harmful if swallowed.
- H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

- H411 Toxic to aquatic life with long lasting effects.
- H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Hazard class and hazard category	Code	Description
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. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
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
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

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SECTION 2: Hazards identification SECTION 3: Composition/information on ingredients SECTION 9: Physical and chemical properties SECTION 11: Toxicological information SECTION 12: Ecological information SECTION 14: Transport information SECTION 15: Regulatory information

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	
Eye Irrit. 2, H319	Calculation method	

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.

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

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	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.

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# 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	

## Table of contents

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			
CS2 Propellant		PROC1 - PROC2 - PROC3 - PROC8b - 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 (n	o inclusion into or onto article) (ERC4)	
	Scenario: Propellant (PROC1, PROC2, PROC3, PRO	OC8b, PROC9, PROC12)	
Process Categories	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) characteri	stics		
Physical form of product: Liquid Vapour pressure: > 10 kPa			
<b>Concentration of substance in product:</b> 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			
Use in contained systems Ensure operatives are trained to n Ensure that direct skin contact is a Clear transfer lines prior to de-cou Provide a good standard of contro Drain down and flush system prior	ers while awaiting dismantling or subsequent recycling ninimise exposures. voided. upling. Iled ventilation (10 to 15 air changes per hour). r to equipment break-in or maintenance.	Ith evaluation	
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.