



# NETTOYANT CIRCUIT ADMISSION D'AIR BARDAHL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

#### 1.1. Product identifier

Product form : Mixtures  
Product name : NETTOYANT CIRCUIT ADMISSION D'AIR BARDAHL  
Product code : 2322 # 732232VR4  
Type of product : Detergent

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Function or use category : Cleaning/washing agents and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Distributor

SADAPS BARDAHL  
BP 50050 MOUVAUX  
59589 BONDUES Cedex - France  
T 03.10 38 38 38  
[msds@bardahfrance.com](mailto:msds@bardahfrance.com) - [www.bardahfrance.com](http://www.bardahfrance.com)

##### Supplier

SADAPS BARDAHL Additives & Lubricants  
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3  
7522 TOURNAI - BELGIQUE  
T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61  
[msds@bardahfrance.com](mailto:msds@bardahfrance.com) - [www.bardahfrance.com](http://www.bardahfrance.com)

#### 1.4. Emergency telephone number

Emergency number : +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1A H314

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger  
Hazardous ingredients : 2-aminoethanol  
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage  
Precautionary statements (CLP) : P102 - Keep out of reach of children  
P280 - Wear protective gloves, protective clothing, eye protection/face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower  
P310 - Immediately call a POISON CENTER, a doctor

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container to a hazardous or special waste collection point

Extra phrases : For professional users only

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-aminoethanol	(CAS No) 141-43-5 (EC No) 205-483-3 (EC Index No) 603-030-00-8 (REACH-no) 01-21194886455-28	<5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412
Alcohols, C9-11, ethoxylated <2.5 EO	(CAS No) 68439-46-3 (EC No) 614-482-0	<3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
2,2'-iminodiethanol substance with a Community workplace exposure limit	(CAS No) 111-42-2 (EC No) 203-868-0 (EC Index No) 603-071-00-1 (REACH-no) 01-2119488930-28	<0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-aminoethanol	(CAS No) 141-43-5 (EC No) 205-483-3 (EC Index No) 603-030-00-8 (REACH-no) 01-21194886455-28	(C >= 5) STOT SE 3, H335

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries after skin contact : Causes severe skin burns and eye damage.
- Symptoms/injuries after eye contact : Causes serious eye damage.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

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### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.  
Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Recover the product with absorbent material.  
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.  
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep out of frost. Keep away from heat.  
Maximum storage period : 36 months

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2,2'-iminodiethanol (111-42-2)		
EU	IOELV TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	0,47 ppm
2-aminoethanol (141-43-5)		
Belgium	Limit value (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	7,6 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	3 ppm
France	VME (mg/m <sup>3</sup> )	2,5
France	VME (ppm)	1 ppm
France	VLE (mg/m <sup>3</sup> )	7,6 mg/m <sup>3</sup>
France	VLE (ppm)	3 ppm

### 8.2. Exposure controls

#### Hand protection:

Wear suitable gloves tested to EN374

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)		3 (> 0.65)	EN 374

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### Eye protection:

Chemical goggles or safety glasses

Type	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Good ventilation of the workplace required



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: No data available
Odour threshold	: No data available
pH	: 11,5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,005 - 1,015 (20°C)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

### 10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>2,2'-iminodiethanol (111-42-2)</b>	
LD50 oral rat	710 mg/kg

<b>2-aminoethanol (141-43-5)</b>	
LD50 oral rat	1089 mg/kg
LD50 dermal rabbit	2504 mg/kg
LC50 inhalation rat (mg/l)	1,4 mg/l/4h

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
LD50 oral rat	1,2 g/kg
LD50 dermal rabbit	> 2000 mg/kg

<b>trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate (1934-21-0)</b>	
LD50 oral rat	> 2000 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 11,5

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 11,5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
NOAEL (oral, rat, 90 days)	> 500 mg/kg bodyweight/day
NOAEL (subchronic, oral, animal/male, 90 days)	> 125 mg/kg bodyweight

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>2-aminoethanol (141-43-5)</b>	
LC50 fish 1	349 mg/l poisson, 96h
EC50 72h algae (1)	1 mg/l

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
LC50 fish 1	12 mg/l
ErC50 (algae)	> 8,9 mg/l

### 12.2. Persistence and degradability

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
Biodegradation	60 - 95,4 %

### 12.3. Bioaccumulative potential

<b>2-aminoethanol (141-43-5)</b>	
Log Pow	-1,3 octanol/H <sub>2</sub> O (20°C)

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
BCF fish 1	< 800
Log Pow	2,86 - 3,79

### 12.4. Mobility in soil

<b>Alcohols, C9-11, ethoxylated &lt;2.5 EO (68439-46-3)</b>	
Log Koc	270,43 - 7231,54

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not discharge into drains or the environment.  
 Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.  
 Ecology - waste materials : Do not discharge the product into the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
<b>14.1. UN number</b>			
1760	1760	1760	1760
<b>14.2. UN proper shipping name</b>			
CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	Corrosive liquid, n.o.s.	CORROSIVE LIQUID, N.O.S.
<b>Transport document description</b>			
UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS ; 2-aminoethanol ), 8, III, (E)	UN 1760 CORROSIVE LIQUID, N.O.S., 8, III	UN 1760 Corrosive liquid, n.o.s., 8, III	UN 1760 CORROSIVE LIQUID, N.O.S., 8, III
<b>14.3. Transport hazard class(es)</b>			
8	8	8	8
			
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available			

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C9  
 Special provisions (ADR) : 274  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P001, IBC03, LP01, R001  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T7  
 Portable tank and bulk container special provisions (ADR) : TP1, TP28  
 Tank code (ADR) : L4BN  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Packages (ADR) : V12  
 Hazard identification number (Kemler No.) : 80  
 Orange plates :



Tunnel restriction code (ADR) : E

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EAC code : 2X  
APP code : B

### - Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 8L

### - Rail transport

Classification code (RID) : C9  
Special provisions (RID) : 274  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP28  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 80

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
non-ionic surfactants	<5%

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### 15.1.2. National regulations

#### France

Occupational diseases : RG 49 - Affections cutanées provoquées par les amines aliphatiques, alicycliques ou les éthanolamines

#### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*