

MATERIAL SAFETY DATA SHEET

In accordance with Regulation 1907/2006 and Regulation 830/2015

Date of compilation: 28/01/2005 Date of revision: 28/11/23 Revision: 10

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Product: DURA BLUE IT

1. Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier: DURA BLUE IT

1.2 Relevant identified uses of the substance or mixture:
Disruptive degrader treatment for odors in portable toilets

1.3 Details of the supplier of the safety data sheet:

ARMAL S.p.a.
Via Fiorentina, 109
50052 Certaldo (FI)
Tel. 0039 0571/663455

1.4 Emergency phone number:

0039 0571/663455 (Call during office hours)

E-mail TC: paolaulivi@dangerandsafety.it

2. Hazards identification **

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Acute toxicity – oral (category 4)

Skin irritation (category 2)

Serious eye damage (category 1)

Hazard statement Code(s):

H302 - Harmful if swallowed

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

2.2. Label elements:

Pictogram, Signal Word Code(s):
Danger



Hazard statement Code(s):

H302 - Harmful if swallowed

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary statements:

Prevention

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

Response

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 or doctor

Disposal

P501 - Dispose of contents/container to the rules.

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Contains:

Methanol; Alcohols, C11-14-iso-,C13-rich, ethoxylated; Alcohols C10-14, ethoxylated; Alcohol C10 long chain alkoxyate; Benzododecinium chloride; Tetradecyldimethylbenzyl ammonium chloride.

2.3 Other hazard

None information

3. Composition/Information on ingredients**

3.2 Mixtures

Chemical composition:

Name	Concentration (C)	Classification
		Regulation CE/1272/2008
Methanol*	2 < C < 3	Flam. Liq. 2 H225
Cas No 67-56-1		Acute Tox. 3 H301
CE No 200-659-6		Acute Tox. 3 H311
Index no 603-001-00-X		Acute Tox. 3 H331
		STOT SE 1 H370
Alcohols, C11-14-iso-,C13-rich, ethoxylated	2 < C < 3	Acute Tox. 4 H302
Cas No 78330-21-9		Eye Dam. 1 H318
		Aquatic Chronic 3 H412
Alcohols C10-14, ethoxylated	2 < C < 3	Acute Tox. 4 H302
Cas No 66455-15-0		Eye Dam. 1 H318
Alcohol C10 long chain alkoxyate	2 < C < 3	Acute Tox. 4 H302
Cas No 166736-08-9		Eye Dam. 1 H318
Benzododecinium chloride	2 < C < 3	Acute Tox. 4 H302
Cas No 139-07-1		Acute Tox. 4 H312
CE 205-131-5		
Tetradecyldimethylbenzyl ammonium chloride	1 < C < 2	Acute Tox. 4 H302

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Società soggetta a direzione e coordinamento di TTD Holding IV GmbH
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armal@armal.biz - info@cert.armal.biz - www.armal.biz
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Cas No 139-08-2		Acute Tox. 4 H312
CE No 205-352-0		Skin Corr. 1B H314
		Aquatic Acute 1 H400

* Substance with a limit value for occupational exposure

The components are exempted from registration pursuant to article 2 of the REACH regulation (CE) n. 1907/2006: the annual tonnage does not require registration.

The full text of hazard statements is specified in section 16.

4. First-aid measures **

4.1 Description of first aid measures

Inhalation

Remove the victim from contaminated area and keep him in a well ventilated and comfortable place with the chest up. Avoid cooling (covered). Apply artificial respiration if necessary. If breathing is irregular seek medical advice.

Skin contact

Remove contaminated clothing. Wash immediately with plenty of water and soap. Consult a doctor. Wash contaminated clothing before using them.

Eyes contact

Irrigate immediately and copiously with clean, fresh water for at least 15 minutes, keeping opened eyes. In any case consult a specialist.

Ingestion

Don't induce vomiting. Never give anything by mouth to an unconscious person and if it is not indicated by the doctor. Consult a doctor immediately

Other

In all cases of doubt, or when the malaise symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

Not available

5. Fire-fighting measures **

5.1 Extinguishing media

Advised extinguishing agents:

CO₂, foam, chemical powder, nebulized water.

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Unappropriate extinction methods:

None

5.2 Special hazards arising from the substance or mixture

The product under fire condition may develop irritant/toxic gas. (COx, NH₃, NOx, SOx, HCl).

5.3 Advice for firefighters

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following Local regulation.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid the contact with skin and eyes. Supply a good air circulation. In case of formation of vapours use suitable respiratory protection. Move away any unauthorised person. Eliminate or exclude any source of ignition.

6.2 Environmental precautions

Collect the product in suitable container for disposal. Notify authorities if product enters sewer or public waters

6.3 Methods and material for containment and cleaning up

Cover with inert absorbent material(sand, earth, etc.). Collect as far as possible the treated mass. Use water only to remove residuals, so as to avoid the danger of entering the sewer.

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Supply good air circulation in working area. Avoid all unnecessary exposure, handle in accordance with good industrial hygiene and safety procedures. Wear protective equipment. Do not smoke, eat or drink during the working processes.

7.2 Conditions for safe storage, including any incompatibilities

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Protect from frost.

7.3 Specific end use(s)

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

8. Exposure controls/personal protection **

8.1 Control parameters

Methanol:

OEL-EU: 260mg/m³, 200ppm (as TWA)

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8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

Individual protection

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection: protective gloves of neoprene, butyl, polychloroprene.
Penetration time of glove material: the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: safety glasses
Skin protection: suitable protective clothing
Respiratory protection: mask with filter (type A) in case of insufficient ventilation.

9. Physical and chemical properties **

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	blue liquid	
Odour	pleasant	
Odour threshold	not available	
pH	6.0-7.5	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	51 °C	
Evaporation rate	not available	
Flammability (solid, gas)	non pertinent	
Upper/lower flammability or explosive limits	LEL 6.7 UEL 36.0	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	
Solubility	soluble in water	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not explosive	
Explosive properties	not oxidising	

9.2. Other information

VOC (Directive 1999/13/CE): 2-3%

10. Stability and reactivity **

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10.1 Reactivity

In contact with strong oxidants exothermal reaction may occur.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

In addition to what expressly indicated are not aware that in conditions other than those of the normal use of hazardous reactions occurring.

10.4 Conditions to avoid:

Methanol: Keep away from heat and sources of ignition. Vapours may form explosive mixture in air.

10.5 Incompatible materials:

Methanol: Strong oxidizing agents: risk of fire and explosion (very exothermic reaction).
Violent reaction with: alkaline metals (release of hydrogen).

10.6 Hazardous decomposition products

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health (CO_x, NH₃, NO_x, SO_x, HCl).

Methanol: Thermal decomposition giving toxic products: carbon oxides and formaldehyde.

11. Toxicological information **

11.1 Information on toxicological effects

ATE(mix) oral = 1.880,4 mg/kg
ATE(mix) dermal = 7.522,2 mg/kg
ATE(mix) inhal = 103,4 mg/l/4 h

- (a) acute toxicity: Harmful product: do not ingest
- (b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Methanol:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation and through

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the skin and by ingestion.

INHALATION: A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20 °C.

EFFECTS OF SHORT-TERM: the substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system, causing impairment of supervision.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis. The substances may have effects on the central nervous system, causing persistent or recurrent headaches and vision damaged.

ACUTE HAZARDS / SYMPTOMS Cough. Dizziness. Headache. Nausea. Weakness. Disorders of visione.

SKIN CAN 'BE USED! Dry skin. Redness

.EYES Redness. pain

INGESTION abdominal pain. Shortness of breath. Vomiting. Convulsions. Unconsciousness. (Further see Inhalation).

NOTES Depending on the degree of exposure, periodic medical examination is indicated.

12. Ecological information **

12.1. Toxicity

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Methanol:

LC50: 15400 mg/l/96h (Lepomis macrochirus)

EC50: 18260 mg/l/96h (Daphnia Magna)

12.2. Persistence and degradability:

Methanol: Readily biodegradable Degr. 97% (20 days)

12.3. Bioaccumulative potential:

Methanol: LogPow: -0,77

12.4. Mobility in soil: not available

12.5. Results of PBT and vPvB assessment:

Methanol: The substance is not PBT / vPvB

12.6. Other adverse effects: not available

13. Disposal considerations

13.1. Waste treatment methods

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

Consider the possibility of burning the product in a suitable incinerator.

14. Transport information **

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14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

It is not intended to carry bulk

15. Regulatory information **

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

Danger labeling under directives 1272/2008 (EC) and 790/2009 and subsequent amendments.

Regulation	CAS	Substance
Reg. (EC) 428/2009 ex CE 1334/2000 Ann.1	-	-
Reg. (EC) 273/04 Tab.1 Cat.1	-	-
Reg. (EU) 98/2013 Tab. 1	-	-
Reg. (EU) 98/2013 Tab. 2	-	-
Reg. (EU) 1258/2013 ex Reg. (EC) 273/04 Tab.1 Cat.2	-	-
Reg. (EC) 273/04 Tab.1 Cat.3	-	-
Reg. (EC) 1907/2006 Ann. XIV	-	-
Reg. (EC) 1907/2006 Substances SVHC	-	-
Reg. (EC) 1907/2006 Ann. XVII	-	Mixture (Entry 3)
Directive 2012/18/UE Ann.1 part 1	-	-
Directive 2012/18/UE Ann.1 part 2	67-56-1	Methanol

15.2. Chemical safety assessment:

There isn't a assessment of chemical safety for the mixture and substances.

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16. Other information **

Description of the sentences of risk set out in paragraph 3:

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H312 = Harmful in contact with skin.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H400 = Very toxic to aquatic life.

Classification based on data of all components of the mixture

*** Indicates information that has changed from previously issued*

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

LD50 = Lethal Dose 50

CL50 = Lethal concentration 50

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP) and its amendments and adjustments
3. Regulation (EC) 790 / 2009
4. Regulation (EU) 453/2010
5. Regulation (EU) 830/2015
6. The Merck Index. Ed 10
7. Handling Chemical Safety
8. NIOSH - Registry of Toxic Effects of Chemical Substances
9. INRS - Fiche Toxicologique
10. Patty - Industrial Hygiene and Toxicology
11. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition
12. ADR Directive 2008/68/CE and its amendments and adjustments
13. ECHA Web site <http://echa.europa.eu/web/guest>
14. Directive 2012/18/UE
15. Directive 2009/161/UE

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .This document must not be regarded as a guarantee on any

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specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This sheet cancels and substitutes any previous edition.