

# MATERIAL SAFETY DATA SHEET

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

Date of compilation: 28/01/05 Date of revision: 15/10/15 Revision: 8

Pag. 1 di 9

Product: **DURA BLUE IT**

## 1. Identification of the substance/mixture and of the company/enterprise

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.R.L.  
Via Fiorentina, 109  
50052 Certaldo (FI)  
Tel. 0571/663455

1.4 Emergency phone number:  
0571/663455 (Call during office hours)

E-mail TC: [paolaulivi@dangerandsafety.it](mailto: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)  
Acute toxicity – dermal (category 4)  
Acute toxicity – inhalation (category 4)  
Skin irritation (category 2)  
Serious eye damage (category 1)  
Specific target organ toxicity – single exposure (category 2)

**Hazard statement Code(s):**

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H371 - May cause damage to organs .

2.2. Label elements:

**Pictogram, Signal Word Code(s):**

Danger



**Hazard statement Code(s):**

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 2 di 9

Prodotto: **DURA BLUE IT**

H371 - May cause damage to organs .

### Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

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

P271 - Use only outdoors or in a well-ventilated area.

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

Response

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

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

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

P362+P364 - Take off contaminated clothing and wash it before reuse.

Storage

P405 - Store locked up.

### Contains:

Alkyl dimethyl benzylammonium chloride, methanol.

### 2.3 Other hazard

None information

## 3. Composition/Information on ingredients

### 3.2 Mixtures

#### Chemical composition:

Name	Concentration (C)	Classification	
		Regulation CE/1272/2008	
Fragrance	6 < C < 12	Eye Dam. 1	H318
Cas Nr n.a.			
methanol	5 < C < 10	Flam. Liq. 2	H225
Cas Nr 67-56-1		Acute Tox. 3	H331
CE Nr 200-659-6		Acute Tox.3	H311
Index Nr 603-001-00-X		Acute Tox 3.	H301
		STOT SE 1	H370
Alkyl dimethyl benzylammonium chloride	2 < C < 5	Skin Corr. 1B	H314
Cas Nr 63449-41-2		Acute Tox. 4	H312
CE Nr 264-151-6		Acute Tox. 4	H302
Index Nr 612-140-00-5		Aquatic Acute 1	H400

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

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 3 di 9

Prodotto: **DURA BLUE IT**

## 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. Seek medical attention. 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 urgently 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. Medical emergency

### 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

If inhalation: If breathing is irregular seek medical advice.

If skin irritation occurs: Seek medical attention

In case of contact with eye: In any case consult urgently a specialist

If swallowed: Medical emergency

## 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Advised extinguishing agents:

CO<sub>2</sub>, foam, chemical powder, nebulized water.

#### Unappropriate extinction methods:

None

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

The product under fire condition may develop irritant/toxic gas. (CO<sub>x</sub>, NO<sub>x</sub>, 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

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 4 di 9

Prodotto: **DURA BLUE IT**

## 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 the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

## 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/personale protection**

### 8.1 Control parameters

None

### 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. The shower is strongly recommended.

### 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. Penetration time of glove material: the exact break through time has been found out by the manufacturer of the protective gloves and has to be observed.

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 5 di 9

Prodotto: **DURA BLUE IT**

Eye protection: Goggles o face shield  
Skin protection: suitable protective clothing  
Respiratory protection: Mask with filter (type A) for organic vapours

## 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	characteristic	
Odour threshold	not available	
pH	6-7.5	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Punto di infiammabilità	45-60° C	
Tasso di evaporazione	not available	
Flash point	non pertinent	
Evaporation rate	LEL 6.7 UEL 36.0	
Flammability (solid, gas)	not available	
Upper/lower flammability or explosive limits	not available	
Vapour pressure	not available	
Vapour density	soluble in water	
Relative density	completely soluble	
Solubility	not available	
Water solubility	not available	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	ab. 1,11 g/cm <sup>3</sup>	
Viscosity	not explosive	
Explosive properties	not oxidising	

### 9.2. Other information

VOC (Directive 1999/13/CE): 5-10%

## 10. Stability and reactivity

### 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:

no data available

### 10.4. Conditions to avoid:

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 6 di 9

Prodotto: **DURA BLUE IT**

no data available

10.5. Incompatible materials:

no data available

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<sub>x</sub>, NO<sub>x</sub>, HCl)

## 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity classification given by the specific concentration limits of Methanol

- (a) acute toxicity: Harmful Product : Do not ingest , inhale or put in contact with skin
- (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: The product can cause serious irreversible damages to man's health
- (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 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 vision.

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.

**Alkyl dimethyl benzylammonium chloride:**

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

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 7 di 9

Prodotto: **DURA BLUE IT**

skin and by ingestion.

**EFFECTS OF SHORT-TERM:** The substance is corrosive to the eyes, the skin and the respiratory tract . Corrosive on ingestion . If a solution is swallowed , aspiration into the lungs may result in chemical pneumonitis .

**ACUTE HAZARDS / SYMPTOMS**

**INHALATION:** Sore throat . Cough . Difficulty breathing .

**SKIN** Redness. Skin burns. Pain

**EYES** Redness. Pain. Blurred vision. Severe deep burns .

**INGESTION** abdominal pain. Nausea. Vomiting. Burning sensation. Diarrhea. Shock or collapse.

**N O T E S** The symptoms of lung edema often do not become manifest until a few hours and are aggravated by physical effort. They are therefore essential the rest and medical observation.

Corrosive/irritation power:

Eyes: serious eye damage

Skin: irritation

## 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:**

EC<sub>50</sub>: >10000mg/l/48h (Daphnia Magna)

**Alkyl dimethyl benzylammonium chloride:** The substance is very toxic to aquatic organisms.

### 12.2. Persistence and degradability:

All components are considered readily biodegradable in accordance with the OECD method

**methanol** readily biodegradable, Degr. 95% (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

*This product contains AOX*

## 13. Disposal consideration

### 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.

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 8 di 9

Prodotto: **DURA BLUE IT**

## 14. Transport information

The product is not dangerous for the law on transport as it does not sustain combustion according to the criteria of sub-section 32.5.2 of Part III of the Manual of Tests and Criteria.

## 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
428/2009 ex CE 1334/2000 All.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
Reg. CE 1907/2006 Ann. XIV	-	-
Reg. CE 1907/2006 Sostanze SVHC	-	-
Ann.. XVII del Reg. CE 1907/2006	-	-
238/05 (Seveso ter) All.1 parte 1	67-56-1	Methanol
238/05 (Seveso ter) All.1 parte 2	-	-

### 15.2. Chemical safety assessment:

none

## 16. Altre informazioni

### Testo delle indicazioni di pericolo esposte al punto 3

H225 = Highly flammable liquid and vapour.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H331 = Toxic if inhaled.

H370 = Causes damage to organs .

H318 = Causes serious eye damage.

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H400 = Very toxic to aquatic life.

*Classification based on data of all components of the mixture*

# MATERIAL SAFETY DATA SHEET

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

Data di compilazione: 14/10/15

Data di revisione: 14/10/15 Revision: 8

Pag. 9 di 9

Prodotto: **DURA BLUE IT**

## 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>

## 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 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.