

<b>SECTION 1 : Identification of the substance/mixture and of the company/undertaking</b>
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- 1.1 Product Identifier**  
 Product Name : Brominating Granules  
 Datasheet Number : SDS013  
 Unique Formula Identifier: D410-F0MP-Y00U-0S9N
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Application of the substance / the mixture Biocide.  
 Identified Use(s) Uses advised against No Further relevant information available.
- 1.3 Details of the supplier of the safety data sheet**  
 Name of Supplier Plastica Ltd  
 Address of Supplier Perimeter House, Napier Road  
 St Leonards-on-Sea, East Sussex  
 TN38 9NY, United Kingdom  
 Telephone +44 (0) 1424 857857  
 E-mail (competent person) info@plasticapools.net
- 1.4 Emergency Telephone Number**  
 Emergency Phone No 0800 043 0891 (Technical) 24 Hours a day  
 0800 043 0892 (Emergency)  
 Languages Spoken English

Members of the public seeking specific information on poisons should contact: I  
 n England and Wales: NHS 111 - dial 111  
 In Scotland: NHS 24 - dial 111

<b>SECTION 2 : Hazards Identification</b>
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- 2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity (oral), Cat 4 H302

Serious eye damage/irritation, Cat 2 H319  
 Specific target organ toxicity, single exposure, Cat 3, Respiratory tract irritation H335

Hazardous to the aquatic environment -  
 Acute Hazard, Cat 1 H400

Hazardous to the aquatic environment -  
 Chronic Hazard, Cat 1 H410

Full text of H- and EUH-statements: see section 16

Adverse physiochemical, human health and environmental effects  
 Harmful if swallowed.  
 May cause respiratory irritation.  
 Causes serious eye irritation.  
 Very toxic to aquatic life with long lasting effects.

**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)



GHS07



GHS09

**Hazard Pictograms**  
**Signal Word(s)**  
**Hazard Statement(s)**

GHS07, GHS09  
 Warning  
 H302 - Harmful if swallowed  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statements (CLP)**

P261 - Avoid breathing dust  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P271 - Use only outdoors or in a well-ventilated area  
 P273 - Avoid release to the environment  
 P301+P310 - IF swallowed: Immediately call a POISON CENTRE, a doctor  
 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

**Additional Information**

EUH031 Contact with acids liberates toxic gas.

**2.3 Other hazards**

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

<b>SECTION 3 : Composition/Information on Ingredients</b>
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**3.2 Chemical characterisation:**

Mixtures

**Description:**

Mixture of substances listed below with nonhazardous additions.

Substance	CAS No	EC No	EINECS No	%W/W
Troclosene sodium, dihydrate	51580-86-0	220-767-7		>70
Sodium bromide	7647-15-6	231-599-9		1-10

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4 : First Aid Measures

- 4.1 Description of first aid measures**
- General information: Call a poison centre or a doctor if you feel unwell.
- After inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison centre or a doctor if you feel unwell.
- After skin contact: Immediately wash with plenty of water.
- After eye contact: Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water.
- After swallowing: If eye irritation persists: get medical advice/attention.  
Rinse out mouth.  
Call a poison centre or doctor if you feel unwell.
- 4.2 Most important symptoms and effects, both acute and delayed**
- May cause respiratory irritation.  
May cause eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed**
- Treat symptomatically.

#### SECTION 5 : Firefighting Measures

- 5.1 Extinguishing Media :**
- Suitable Extinguishing Agents: Dry powder, Foam or water spray.
- 5.2 Special hazards arising from the substance or mixture :**
- Toxic fumes may be released.
- 5.3 Advice for Firefighters :**
- Wear fully protective suit.  
Wear self-contained respiratory protective device.

#### SECTION 6 : Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures :**
- Ventilate spillage area.  
Avoid breathing dust/fume/gas/mist/vapour/spray.  
Avoid contact with skin and eyes.  
Do not attempt to take action without suitable protective equipment.
- 6.2 Environmental Precautions:**
- Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up:**
- Collect any spillage.  
Mechanically recover the product.  
Dispose of materials or solid residues at an authorized site.
- 6.4 Reference to other sections**
- See Section 13 for disposal information.

## SECTION 7 : Handling and Storage

- 7.1 Precautions for Safe Handling** Use only outdoors or in a well ventilated area.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid contact with skin and eyes.  
Wear personal protective equipment.
- Hygiene measures** Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage:** Store locked up in a well ventilated place.  
Keep container tightly closed.  
Keep cool.
- 7.3 Specific end use(s)** No additional information available.

## SECTION 8 : Exposure Controls/Personal Protection

- 8.1 Control Parameters**
- National occupational exposure and biological limit values**  
No additional information available
- Recommended monitoring procedures**  
No additional information available
- Air contaminants formed**  
No additional information available
- DNEL and PNEC**  
No additional information available
- Control banding**  
No additional information available
- 8.2 Exposure controls**
- Personal protective equipment:**
- General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.  
Avoid close or long term contact with the skin.  
Do not eat or drink while working.  
Take note of assigned Workplace Exposure Limits.
- Respiratory protection:** Not necessary if room is well ventilated.
- Protection of hands:** Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves :**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## 8.2 cont..

**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**

Goggle recommended during refilling.

**Body protection:**

Protective work clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.

**SECTION 9 : Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

## General Information

## Appearance:

Form:	Solid
Colour:	Not available
Odour:	Not available
Odour threshold:	Not available
Melting point:	Not available
Freezing point:	Not applicable
Boiling point:	Not available
Flammability:	Non flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not available
pH:	Not available
pH solution:	Not available
Viscosity, kinematic:	Not applicable
Solubility:	Not available
Partition coefficient n-octanol/water:	Not available
Vapour pressure:	Not available
Vapour pressure at 50°C:	Not available
Density:	Not available
Relative density:	Not available
Relative vapour density at 20°C:	Not applicable
Particle size:	Not available

**9.2 Other Information:** No additional information available.

**SECTION 10 : Stability and Reactivity**

<b>10.1 Reactivity</b>	This product is non-reactive under normal conditions of use, storage and transport.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No dangerous reactions known under normal conditions of use.
<b>10.4 Conditions to avoid:</b>	None under recommended storage and handling conditions.
<b>10.5 Incompatible materials:</b>	No additional information available.

10.6 **Hazardous decomposition products:** Carbon monoxide and carbon dioxide**SECTION 11 : Toxicological Information**11.1 **Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral): Harmful if swallowed  
 Acute toxicity (dermal): Not classified  
 Acute toxicity (inhalation): Not classified

<b>Brominating granules</b>	
ATE CLP (oral)	756.952 mg/kg bodyweight
<b>Troclosene Sodium, Dihydrate (51580-86-0)</b>	
LD50 oral	735 mg/kg
<b>Sodium Bromide (7647-15-6)</b>	
LD50 oral rat	4200 mg/kg
Skin corrosion/irritation:	Not classified
<b>Sodium Bromide (7647-15-6)</b>	
pH	7-8
Serious eye damage/irritation:	Causes serious eye irritation
<b>Sodium Bromide (7647-15-6)</b>	
pH	7-8
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT - single exposure:	May cause respiratory irritation
<b>Troclosene Sodium, Dihydrate (51580-86-0)</b>	
STOT - single exposure	May cause respiratory irritation
<b>Sodium Bromide (7647-15-6)</b>	
STOT - single exposure	May cause drowsiness or dizziness
STOT - repeated exposure:	Not classified
<b>Sodium Bromide (7647-15-6)</b>	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard:	Not classified
<b>Brominating Granules</b>	
Viscosity, Kinematic	Not applicable

11.2 **Information on other hazards**

No additional information available

## SECTION 12 : Ecological Information

### 12.1 Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment,  
short-term (acute): Very toxic to aquatic life.

Hazardous to the aquatic environment,  
long-term (chronic): Very toxic to aquatic life with long lasting effects.

Troclosene Sodium, Dihydrate (51580-86-0)	
LC50 - Fish (1)	0.22 mg/l
Sodium Bromide (7647-15-6)	
LC50 - Fish (1)	>1000 mg/l

### 12.2 Persistence and degradability

Brominating Granules	
Persistence and degradability	Rapidly degradable
Troclosene Sodium, Dihydrate (51580-86-0)	
Persistence and degradability	Not rapidly degradable
Sodium Bromide (7647-15-6)	
Persistence and degradability	Not rapidly degradable

12.3 **Bioaccumulative potential** No additional information available.

12.4 **Mobility in soil** No additional information available.

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** Dispose of contents/container in accordance with licensed collectors sorting instructions.

## SECTION 14 : Transport Information

- 14.1 **UN-Number**  
**ADR, ADN, IMDG, IATA, RID** UN3077
- 14.2 **UN proper shipping name**  
**ADR, ADN, IMDG, IATA, RID** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S (TROCLOSENE SODIUM,  
DIHYDRATE)
- 14.3 **Transport hazard class(es)**  
**ADR, ADN, IMDG, IATA, RID**  
Class 9
- 14.4 **Packing group** III

**14.5 Environmental hazards**

ADR, ADN, IATA, RID

Dangerous for the environment

IMDG

Dangerous for the environment  
Marine pollutant**14.6 Special precautions for user**

Overland transport

Classification code (ADR):

M7

Special provisions (ADR):

274, 335, 375, 601

Limited quantities (ADR):

5kg

Excepted quantities (ADR):

E1

Packing instructions (ADR):

P002, IBC08, LP02, R001

Special packing provisions (ADR):

PP12, B3

Mixed packing provisions (ADR):

MP10

Portable tank and bulk container  
instructions (ADR):

T1, BK1, BK2, BK3

Portable tank and bulk container  
special provisions (ADR):

TP33

Tank code (ADR):

SGAV, LGBV

Vehicle for tank carriage:

AT

Transport category (ADR):

3

Special provisions for carriage

Packages (ADR):

V13

Special provisions for carriage

Bulk (ADR):

VC1, VC2

Special provisions for carriage

Loading, unloading and handling (ADR): CV13

Hazard identification number

(Kemler No):

90

90

3077

Orange plates:

Tunnel restriction code (ADR):

-

EAC code:

2Z

Transport by sea

Special provisions (IMDG):

274, 335, 966, 967, 969

Limited quantities (IMDG):

5kg

Excepted quantities (IMDG):

E1

Packing instructions (IMDG):

LP02, P002

Special packing provisions (IMDG):

PP12

IBC packing instructions (IMDG):

IBC08

IBC special provisions (IMDG):

B3

Tank instructions (IMDG):

BK1, BK2, BK3, T1

Tank special provisions (IMDG):

TP33

EmS-No (Fire):

F-A

EmS-No (Spillage):

S-F

Stowage category (IMDG):

A

Stowage and handling (IMDG):

SW23



## 14.6 cont...

## Air transport

PCA excepted quantities (IATA):	E1
PCA limited quantities (IATA):	Y956
PCA limited quantity max net quantity:	30kg
PCA packing instructions (IATA):	956
PCA max net quantity (IATA):	400kg
CAO packing instructions (IATA):	956
CAO max net quantity (IATA):	400kg
Special provisions (IATA):	A97, A158, A179, A197, A215
ERG code (IATA):	9L

## Inland waterway transport

Classification code (ADN):	M7
Special provisions (ADN):	274, 335, 375, 601
Limited quantities (ADN):	5kg
Excepted quantities (ADN):	E1
Carriage permitted (ADN):	T* B**
Equipment required (ADN):	PP, A***
Number of blue cones/lights (ADN):	0

## Rail transport

Classification code (RID):	M7
Special provisions (RID):	274, 335, 375, 601
Limited quantities (RID):	5kg
Excepted quantities (RID):	E1
Packing instructions (RID):	P002, IBC08, LP02, R001
Special packing provisions (RID):	PP12, B3
Mixed packing provisions (RID):	MP10
Portable tank and bulk container instructions (RID):	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID):	TP33
Tank codes for RID tanks (RID):	SGAV, LGBV
Transport category (RID):	3
Special provisions for carriage - Packages (RID):	W13
Special provisions for carriage - Bulk (RID):	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID):	CW13, CW31
Colis express (express parcels) (RID):	CE11
Hazard identification number (RID):	90

14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable

<b>SECTION 15 : Regulatory Information</b>
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- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Directive 2012/18/EU  
 Named dangerous substances - ANNEX I None of the ingredients is listed.

- 15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16 : Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate

BCF: Bioconcentration factor

BLC: Biological Limit Factor

BOD: Biochemical Oxygen Demand

COD: Chemical Oxygen Demand

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level

EC No: European Community Number

EC50: Median Effective Concentration

EN: European Standard

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median Lethal Concentration

LD50: Median Lethal Dose

LOAEL: Lowest Observed Adverse Effect Level

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative Toxic

PNEC: Predicted No-effect Concentration

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STP: Sewage Treatment Plant

ThOD: Theoretical Oxygen Demand

TLM: Median Tolerance Limit

VOC: Volatile Organic Compounds

CAS-No: Chemical Abstract Service Number

N.O.S: Not Otherwise Specified

vPvB: Very Persistent and Very Bioaccumulative

ED: Endocrine Disrupting Properties