CHASE
Protective Coatings
A Chase Corporation Company

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture Plasgard 410 Red Part A

Registration number -

Synonyms None.

Issue date 11-September-2018

Version number 01

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

Identified uses Pipeline Anticorrosion Coating

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Chase Protective Coatings Ltd

Address A CHASE CORPORATION COMPANY
Harbour Road
Rye, East Sussex, TN31 7TE
UK

Division

Telephone General Assistance +44 (0)1797 223561

e-mail info@chaseprotectivecoatings.com

Contact person Not available.

1.4. Emergency telephone number

Emergency Phone 44 (0)1797 223561

(M-Th 9:00-5:30; F 9:00-3:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Repr. Cat. 2;R61, Xi;R36/38, R43-64, N;R51/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Reproductive toxicity (fertility, the unborn child)	Category 1B	H360FD - May damage fertility. May damage the unborn child.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause harm to the unborn child. Irritating to eyes and skin. May cause sensitisation by skin contact. Possible risk of impaired fertility. May cause harm to breastfed babies. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards None known.

Main symptoms Exposure may cause temporary irritation, redness, or discomfort.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: DIBUTYL PHTALATE

Hazard pictograms

Signal word Danger

Hazard statements

H360FD May damage fertility. May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 96,68 % of the mixture consists of component(s) of unknown acute oral toxicity. 96,68 % of the mixture consists of component(s) of unknown acute dermal toxicity. 57,61 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 96,68 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 96,68 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
DIBUTYL PHTALATE	1 - < 3	84-74-2 201-557-4	-	607-318-00-4	
Classification:	**DSD:** Repr. Cat. 2;R61, Repr. Cat. 3;R62, N;R50				
	CLP: Acute Tox. 4;H332, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
Other components below reportable levels	90 - 100				

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.
#: This substance has been assigned Union workplace exposure limit(s).
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Prevent entry into waterways, sewer, basements or confined areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	MAK	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	MAK	10 mg/m3	Inhalable fraction.
Talc (powder) (CAS 14807-96-6)	MAK	2 mg/m3	Respirable fraction.

Belgium. Exposure Limit Values.

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	6 mg/m3	Inhalable fraction.
		5 mg/m3	
Mica (CAS 12001-26-2)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	1 fibers/cm3	Respirable fraction.
		6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	MAC	5 mg/m3	
	STEL	10 mg/m3	
Diiron trioxide (CAS 1309-37-1)	MAC	5 mg/m3	Fume.
	STEL	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		10 mg/m3	Fume.
Mica (CAS 12001-26-2)	MAC	10 mg/m3	Total dust.
		0,8 mg/m3	Respirable dust.
Talc (powder) (CAS 14807-96-6)	MAC	1 mg/m3	Respirable dust.

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Talc (powder) (CAS 14807-96-6)	TWA	706 part/cm3

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	Ceiling	10 mg/m3	
	TWA	5 mg/m3	
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Total dust.
		10 mg/m3	Respirable dust.
Talc (powder) (CAS 14807-96-6)	TWA	10 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

Denmark. Exposure Limit Values

Components	Type	Value
DIBUTYL PHTALATE (CAS 84-74-2)	TLV	3 mg/m3
Diiron trioxide (CAS 1309-37-1)	TLV	3,5 mg/m3

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable dust.
Mica (CAS 12001-26-2)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		1 mg/m3	Dust.
Talc (powder) (CAS 14807-96-6)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		1 mg/m3	Dust.

Finland. Workplace Exposure Limits

Components	Type	Value	Form
Diiron trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Fume.
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Dust.
Talc (powder) (CAS 14807-96-6)	STEL	2 ppm	Inhalable dust.
		1 ppm	Respirable.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	VME	5 mg/m3	
Regulatory status: Indicative limit (VL)			
Diiron trioxide (CAS 1309-37-1)	VME	5 mg/m3	Fume.
Regulatory status: Indicative limit (VL)			
Mica (CAS 12001-26-2)	VME	5 mg/m3	Respirable fraction.
Regulatory status: Regulatory binding (VRC)			
		10 mg/m3	Inhalable fraction.
Regulatory status: Regulatory binding (VRC)			
Talc (powder) (CAS 14807-96-6)	VME	5 mg/m3	Respirable fraction.
Regulatory status: Regulatory binding (VRC)			
		10 mg/m3	Inhalable fraction.
Regulatory status: Regulatory binding (VRC)			

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	0,58 mg/m3	Vapour and aerosol.
		0,05 ppm	Vapour and aerosol.
Diiron trioxide (CAS 1309-37-1)	TWA	4 mg/m3	Inhalable dust.
		0,3 mg/m3	Respirable dust.
Mica (CAS 12001-26-2)	TWA	4 mg/m3	Inhalable dust.
		0,3 mg/m3	Respirable dust.
Talc (powder) (CAS 14807-96-6)	TWA	4 mg/m3	Inhalable dust.
		0,3 mg/m3	Respirable dust.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	AGW	0,58 mg/m3	Vapour and aerosol.
		0,05 ppm	Vapour and aerosol.
Diiron trioxide (CAS 1309-37-1)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	STEL	10 mg/m3	
	TWA	10 mg/m3	
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
		10 mg/m3	Inhalable

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Diiron trioxide (CAS 1309-37-1)	TWA	6 mg/m3	Respirable.
Mica (CAS 12001-26-2)	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable dust.
Mica (CAS 12001-26-2)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Talc (powder) (CAS 14807-96-6)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Total inhalable dust.
		0,8 mg/m3	Respirable dust.
Talc (powder) (CAS 14807-96-6)	TWA	10 mg/m3	Total inhalable dust.
		0,8 mg/m3	Respirable dust.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	0,5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	2 mg/m3	Dust.
		2 mg/m3	
Mica (CAS 12001-26-2)	TWA	2 mg/m3	
		2 mg/m3	Dust.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Dust.
		2 mg/m3	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
		1 mg/m3	Dust.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.

Netherlands. OELs (binding)

Components	Type	Value	Form
Talc (powder) (CAS 14807-96-6)	TWA	0,25 mg/m3	Respirable dust.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TLV	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TLV	3 mg/m3	
Mica (CAS 12001-26-2)	TLV	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Talc (powder) (CAS 14807-96-6)	TLV	6 mg/m3	Total dust.
		2 mg/m3	Respirable dust.

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	Inhalable fraction.
Diiron trioxide (CAS 1309-37-1)	STEL	10 mg/m3	Respirable fraction.
	TWA	5 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	4 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	5 mg/m3	
	TWA	2 mg/m3	
Diiron trioxide (CAS 1309-37-1)	STEL	10 mg/m3	Dust and fume.
	TWA	5 mg/m3	Dust and fume.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Inhalable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Inhalable fraction.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	4 mg/m3	Inhalable fume.
		1,5 mg/m3	Respirable fume.
Mica (CAS 12001-26-2)	TWA	2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Diiron trioxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable dust.
Mica (CAS 12001-26-2)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Total dust.
		1 mg/m3	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	1,16 mg/m3	
		0,1 ppm	
	TWA	0,58 mg/m3	
		0,05 ppm	
Diiron trioxide (CAS 1309-37-1)	TWA	3 mg/m3	Respirable dust.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable dust.
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
DIBUTYL PHTALATE (CAS 84-74-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Diiron trioxide (CAS 1309-37-1)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		4 mg/m3	Respirable.
		10 mg/m3	Inhalable
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Inhalable
		0,8 mg/m3	Respirable.
Talc (powder) (CAS 14807-96-6)	TWA	1 mg/m3	Respirable dust.

Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Chemical respirator with organic vapour cartridge and full facepiece.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Red
Odour	Ammoniacal.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	0,001 hPa estimated
Vapour density	Not available.
Relative density	Not available.

Solubility(ies)

Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Density	2,97 g/cm3 estimated
Percent volatile	<= 1 %
Specific gravity	2,97 estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
Plasgard 410 Red Part A		
Acute		
Dermal		
LD50	Rabbit	45260 g/kg estimated
		673 ml/kg estimated
Inhalation		
LC50	Mouse	842 mg/l, 2 Hours estimated
	Rat	528 mg/l, 4 Hours estimated
Oral		
LD50	Rat	45470 g/kg estimated

Components	Species	Test Results
DIBUTYL PHTALATE (CAS 84-74-2)		
Acute		
Dermal		
LD50	Rabbit	4200 mg/kg
Inhalation		
LC50	Rat	15,68 mg/l, 4 Hours
Oral		
LD50	Rat	6300 mg/kg

Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity May damage fertility. May damage the unborn child.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Product		Species	Test Results
Plasgard 410 Red Part A			
Aquatic			
Crustacea	EC50	Daphnia	99,4256 mg/l, 48 hours estimated
Fish	LC50	Fish	49,4364 mg/l, 96 hours estimated

Components		Species	Test Results
DIBUTYL PHTALATE (CAS 84-74-2)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2,99 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	0,4 - 0,53 mg/l, 96 hours

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

DIBUTYL PHTALATE 4,9

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture. Not available.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

Label(s) 9

Hazard No. (ADR) 90

Tunnel restriction code E

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

Label(s) 9

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally Hazardous Liquid, N.o.s.

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

Label(s) 9

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

14.4. Packing group III

14.5. Environmental hazards Yes

ERG Code 9L

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

14.4. Packing group III

14.5. Environmental hazards

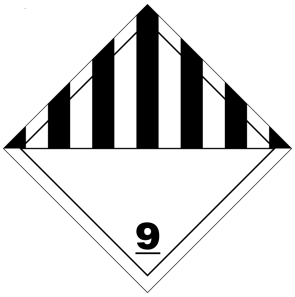
Marine pollutant Yes

EmS F-A, S-F

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant

General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

DIBUTYL PHTALATE (CAS 84-74-2)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

DIBUTYL PHTALATE (CAS 84-74-2)

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

DIBUTYL PHTALATE (CAS 84-74-2)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

DIBUTYL PHTALATE (CAS 84-74-2)

Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.
National regulations	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility. R64 May cause harm to breastfed babies. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory Information: Risk Phrases - Class.
Training information	Follow training instructions when handling this material.
Issued by	Dan Libby
Disclaimer	The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.