

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	Maflowrap Primer B400	
Version #	01	
Issue date	04-20-2015	
CAS #	Mixture	
Manufacturer information	Chase Protective Coatings Ltd Harbour Road Rye, East Sussex, TN31 7TE United Kingdom info@chaseprotectivecoatings.com www.chasecorp.com General Assistance +44 (0)1797 223561	

2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	R10, Xn;R20/21, Xi;R38
Physical hazards	Flammable.
Health hazards	Also harmful by inhalation and in contact with skin. Irritating to skin.
Environmental hazards	Not classified as an environmental hazard.
Specific hazards	Flammable. Harmful by inhalation and in contact with skin. Irritating to mouth, throat, and stomach. Do not breathe dust/fume/gas/mist/vapors/spray.
Main symptoms	Irritating to mouth, throat, and stomach. Skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Bitumen	64742-93-4	40 - 60	265-196-4	
Xylene (mixture of isomers)	1330-20-7	40 - 60	215-535-7	R10, Xn;R20/21, Xi;R38

4. FIRST AID MEASURES

Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Skin contact	Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Take off contaminated clothing and wash before reuse. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately.
General advice	Take off contaminated clothing and shoes immediately. 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. Keep victim under observation. Keep victim warm.
Notes to physician	Oxygen, if needed. Keep victim warm.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Extinguishing media which must not be used for safety reasons	Do not use water jet as an extinguisher, as this will spread the fire.
Unusual fire & explosion hazards	Heat may cause the containers to explode.
Specific hazards	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.
Fire fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Containment procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Personal precautions	Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
Environmental precautions	Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods for cleaning up	<p>Extinguish all flames in the vicinity. The product is immiscible with water and will spread on the water surface.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the MSDS.</p>

7. HANDLING AND STORAGE

Handling	May be ignited by open flame. Keep away from sources of ignition - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.
Storage	Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the MSDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values Components

Components	Type	Value
Xylene (mixture of isomers) (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

Exposure limit values

Hong Kong. OELs. (Occupational Exposure Limits for Chemical Substances in the Work Environment)

Components	Type	Value
Xylene (mixture of isomers) (CAS 1330-20-7)	STEL	651 mg/m ³
	TWA	150 ppm
		434 mg/m ³
		100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Xylene (mixture of isomers) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures to reduce exposure 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.

Personal protective equipment

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection Wear protective gloves.

Eye protection Face-shield. Avoid contact with eyes.

Skin and body protection Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Environmental exposure controls Environmental manager must be informed of all major releases.

Hygiene measures When using do not smoke. Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid.

Form Liquid.

Color Black.

Odor Aromatic

Odor threshold Not available.

pH Not available.

Vapor pressure 10.65 hPa estimated

Vapor density Not available.

Boiling point 278.6 - 284 °F (137 - 140 °C)

Melting point/Freezing point Not available.

Solubility (water) Insoluble in water

Specific gravity 0.92 - 0.96

Relative density Not available.

Flash point > 75.2 °F (> 24.0 °C)

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Auto-ignition temperature > 910.4 °F (> 488 °C)

VOC < 592 g/l

Viscosity > 50 mPa·s

Percent volatile 45 % estimated

Other data

Density	0.96 g/cm ³
Explosive limit - lower (%)	0.8 %
Explosive limit - upper (%)	6.7 %

10. STABILITY AND REACTIVITY

Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Hazardous decomposition products	No hazardous decomposition products are known.
Stability	Risk of ignition.
Materials to avoid	Strong acids. Strong oxidizing agents. Halogens.

11. TOXICOLOGICAL INFORMATION**Toxicological data**

Product	Species	Test Results
Maflowrap Primer B400 (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	95.5556 g/kg estimated
<i>Inhalation</i>		
LC50	Mouse	8682.2227 mg/l, 6 Hours estimated
	Rat	14111.1113 mg/l, 4 Hours estimated
<i>Oral</i>		
LD50	Mouse	3533.3333 mg/kg estimated
	Rat	7828.8887 mg/kg estimated
<i>Other</i>		
LD50	Rat	8.4444 mg/kg estimated
Components	Species	Test Results
Xylene (mixture of isomers) (CAS 1330-20-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
<i>Other</i>		
LD50	Rat	3.8 mg/kg

* Estimates for product may be based on additional component data not shown.

Routes of exposure	Inhalation. Skin contact. Eye contact.
Chronic toxicity	Prolonged inhalation may be harmful.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Bitumen (CAS 64742-93-4)	2A Probably carcinogenic to humans.
Xylene (mixture of isomers) (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Teratogenicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
Reproductivity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
Epidemiology	No epidemiological data is available for this product.
Local effects	Irritating to eyes. Irritating to skin.

Symptoms and target organs Skin irritation. Irritating to mouth, throat, and stomach.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product		Species	Test Results
Maflowrap Primer B400 (CAS Mixture)			
Aquatic			
Fish	LC50	Fish	109.0322 mg/l, 96 hours estimated
Components			
Xylene (mixture of isomers) (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	10.464 - 13.762 mg/l, 96 hours
		Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	11.9 - 25.1 mg/l, 24 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Bioaccumulation	
Bioaccumulative potential	
Octanol/water partition coefficient log Kow	
Xylene (mixture of isomers)	3.12 - 3.2
Aquatic toxicity	Not available.
Mobility	The product is immiscible with water and will spread on the water surface.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	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). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

IATA

UN number	1263
UN proper shipping name	Paint Related Material (Xylene (mixture of isomers))
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No
ERG Code	3L
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	1263
UN proper shipping name	Paint Related Material (Xylene (mixture of isomers))
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-E

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.
IATA; IMDG



15. REGULATORY INFORMATION

Labeling

Contains Bitumen, Xylene (mixture of isomers)

Symbol(s)



Harmful

R-phrases(s) R10 Flammable.
R20/21 Also harmful by inhalation and in contact with skin.
R38 Irritating to skin.

S-phrases(s) S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapor/spray.
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

Follow national regulation for work with chemical agents.

Regulatory information The product is classified and labelled in accordance with EC directives or respective national laws.
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3 R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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.

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