This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.



SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1

Print Date 3/30/2007 Revision date 16-03-07

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

Product information		
Trade name	:	SIGMASHIELD 825 BASE
Recommended use	:	solvent based, two component coating base
Company	:	SigmaKalon Belgium N.V. Tweemontstraat 104 2100 Deurne-Antwerpen
Telephone	:	+32 3 3606311
Telefax	:	+32 3 3606437
Emergency telephone number	:	+31 20 4075210

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
xylene	215-535-7	1330-20-7	25th	Nota C	R10 Xn; R20/21 Xi; R38	>2.50 - <=10.00%
iso-butanol	201-148-0	78-83-1	25th		R67 R10 Xi; R37/38, R41	>0.00 - <=2.50%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>0.00 - <=2.50%
epoxy resin (MW <=700)		25068-38-6	29th		Xi; R36/38 R43 N; R51, R53	>25.00 - <=50.00%
Trizinc bis(orthophosphate)	231-944-3	7779-90-0	29th		N; R50, R53	>0.00 - <=2.50%
amide wax					Xn; R20 R53	>0.00 - <=2.50%

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

3. HAZARDS IDENTIFICATION

Hazardous components : epoxy resin (MW <=700)

R-phrase(s) : FLAMMABLE.

This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.

SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1



Print Date 3/30/2007 Revision date 16-03-07

MAY CAUSE SENSITIZATION BY SKIN CONTACT. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.					
P-phrase(s) : Contains epoxy constituents. See i	information supplied by the manufacturer.				
IRST AID MEASURES					
General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never				
Eye contact	give anything by mouth to an unconscious person.Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.				
Skin contact	 Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. 				
Inhalation	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.				
Ingestion	 If accidently swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting. 				
Burns	: If spills on clothing catch fire, wash with plenty of water. Remove loose clothing. Do not remove clothing that has melted to the skin.Obtain medical attention.				
IRE-FIGHTING MEASURES					
Specific hazards during fire fighting	: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.				
Special protective equipment	: In the event of fire, wear self-contained breathing apparatus.				
for fire-fighters Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.				
Extinguishing media which must not be used for safety reasons	: Do NOT use water jet.				
CCIDENTAL RELEASE MEAS	URES				
Personal precautions	: Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can				
	accumulate in low areas. Remove all sources of ignition.				

Environmental precautions		Try to prevent the material from entering drains or water ways. If the product
Environmental precautions	·	
		contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Clean with detergents. Avoid solvents. Contain and collect spillage with non-
		combustible absorbant material (a g sand earth distomacious earth

Additional advice

This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.

SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1



Print Date 3/30/2007 Revision date 16-03-07

ANDLING AND STORAGE	
Handling	
Safe handling advice	: Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.
Advice on protection against fire and explosion	: Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Storage	
Requirements for storage areas and containers	: Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 25°C (41 - 77 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).
Advice on common storage	: Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Minimum ventilated air quantity for 1 liter of product

TO REACH 10 % LEL : 32 m3/l

Components on the national list and/or the European TLV list (98/24/EC):

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
xylene	1330-20-7	221	50	EU ELV TWA
can be absorbed through skin		442	100	EU ELV STEL
ethylbenzene	100-41-4	442	100	EU ELV TWA
can be absorbed through skin		884	200	EU ELV STEL

Personal protective equipment

General advice

This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.

SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1



Print Date 3/30/2007 Revision date 16-03-07

Respiratory protection	:	When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikly to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air- fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.
Hand protection	:	For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms.
		Recommended gloves: Viton Minimum breakthrough time: 480 min
		The recommended gloves are based on most common solvent in this product.
		When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove supplier.
Eye protection Skin and body protection	:	Chemical resistant goggles must be worn. Personnel should wear protective clothing. Skin should be washed after contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic footwear.
Additional advice		
Environmental protection	:	Refer to national regulations in chapter 15 for regulations on environmental protection.
Personal protection	:	Eye protection, safety gloves and combi mask P1A1

9. PHYSICAL AND CHEMICAL PROPERTIES

: viscous	
:	
: mild aror	natic
: 23.0 °C	
Note: Ca	lculated
:	
: 7.96 %(V	/)
: 1.14 %(V	/)
: 1.54 g/cn	13
at 20 °C	
: no data a	available
:	
	 mild aror 23.0 °C Note: Cai 7.96 %(V 1.14 %(V 1.54 g/cn at 20 °C no data a

SAFETY DATA SHEET SIGMA This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/ÉC. SIGMASHIELD 825 BASE MSDS EU 01 / EN Version 1 Print Date 3/30/2007 Revision date 16-03-07 Viscosity, dynamic : 6,500 mPa.s at 23 °C Flow time >= 60 sTransversal section: 6 mm Method: ISO 2431 (EN 535) 6 mm CUP **10. STABILITY AND REACTIVITY** Conditions to avoid Avoid temperatures above 60°C (140 F), direct sunlight and contact with : sources of heat. **Hazardous reactions** Keep away from oxidising agents, strongly alkaline and strongly acid : materials in order to avoid exothermic reactions. Hazardous decomposition In case of fire hazardous decomposition products may be produced such as: products Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. **11. TOXICOLOGICAL INFORMATION** Acute oral toxicity May cause nausea, abdominal spasms and irritation of the mucous membranes. Acute inhalation toxicity Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies. Eye contact Irritating to eyes. : **Further information** There is no data available for this product. Acute Toxicity Data for Components Trizinc bis(orthophosphate)(7779-90-0) Acute oral toxicity LD50: 552 mg/kg (mouse) : **12. ECOLOGICAL INFORMATION Further information** The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See sections 2 and 15 for details. **13. DISPOSAL CONSIDERATIONS** Product The product should not be allowed to enter drains, water courses or the soil. : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport UN-NO 1263 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport of the PAINT Class 1263 Proper shipping name 1263 Proper	ganic solvents or other r wastes, this code may no propriate code should be ocal waste authority abelled and secure. Ensure that
product of as waste is: 08 01 11 Waste paint and varnish containing or dangerous substances. If this product is fully cured or mixed with othe longer apply. If mixed with other wastes, the ap assigned. For further information contact your I Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-N0 : 1263 Proper shipping name : PAINT Class : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,P,-) : I EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject is not subject to the IMDG code, but both full documentation and placarding still required.	f this product, when disposed ganic solvents or other r wastes, this code may no propriate code should be ocal waste authority abelled and secure. Ensure that
product of as waste is: 08 01 11 Waste paint and varnish containing or dangerous substances. If this product is fully cured or mixed with othe longer apply. If mixed with other wastes, the ap assigned. For further information contact your I Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-N0 : 1263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per outer pack. : 5.00 L Max. per outer pack. : 5.00 L Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placarding still required.	ganic solvents or other r wastes, this code may no propriate code should be ocal waste authority abelled and secure. Ensure that
product of as waste is: 08 01 11 Waste paint and varnish containing or dangerous substances. If this product is fully cured or mixed with othe longer apply. If mixed with other wastes, the ap assigned. For further information contact your I TRANSPORT INFORMATION Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-No 1263 Proper shipping name : PAINT Class :: 3 Proper shipping name : PAINT Label :: 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject or th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin still required.	ganic solvents or other r wastes, this code may no propriate code should be ocal waste authority abelled and secure. Ensure that
08 01 11 Waste paint and varnish containing or dangerous substances. If this product is fully cured or mixed with othe longer apply. If mixed with other wastes, the ap assigned. For further information contact your I TRANSPORT INFORMATION Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-N0 Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-N0 Transport shipping name : PAINT Class : 3 Proper shipping name : PAINT Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note : If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin still required.	r wastes, this code may no propriate code should be ocal waste authority abelled and secure. Ensure that
Ionger apply. If mixed with other wastes, the ap assigned. For further information contact your I assigned. For further information contact your I TRANSPORT INFORMATION Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport. UN-No : 1263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subjeard in arking requirements of the IMDG code, but both full documentation and placardin, still required.	propriate code should be ocal waste authority abelled and secure. Ensure that
Ionger apply. If mixed with other wastes, the ap assigned. For further information contact your I assigned. For further information contact your I TRANSPORT INFORMATION Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport. UN-No : 1263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subjeard in arking requirements of the IMDG code, but both full documentation and placardin, still required.	propriate code should be ocal waste authority abelled and secure. Ensure that
Transport within user's premises: always transport in closed containers that are upright, I persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-No : 1263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subjeard in subjeard marking requirements of the IMDG code, but both full documentation and placardin, still required.	
persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transp UN-No : 1263 Proper shipping name : 263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG : Max. per outer pack. : 30.00 KG Note : Max. per outer pack. : 30.00 KG If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject in the influence in t	
UN-No : 1263 Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject in the terms of the IMDG code, but both full documentation and placarding still required.	vort:
Proper shipping name : PAINT Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Limited quantity (IMDG) : Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subjeard in marking requirements of the IMDG code, but both full documentation and placarding still required.	
Class : 3 Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placarding still required.	
Packing group : III Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Limited quantity (IMDG) : Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG : Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG : Max. per outer pack. : 30.00 KG Note : Max. per outer pack. : 30.00 KG Note : If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placarding still required.	
Label : 3 Proper shipping name (ADR) : PAINT Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Limited quantity (IMDG) : Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG : Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG : Max. per outer pack. : 30.00 KG Note : If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
Marine Pollutant (IMDG)(P,PP,-) : - EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Limited quantity (IMDG) : Max. per outer pack. : 30.00 KG Limited quantity (IMDG) : Max. per outer pack. : 30.00 KG Note : Max. per outer pack. : 30.00 KG Note : If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
EmS (IMDG) : F-E, S-E Limited quantity (ADR) : Max. per inner pack. : 5.00 L Limited quantity (IMDG) : Max. per outer pack. : 5.00 L Max. per outer pack. : 5.00 L Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG : Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
Limited quantity (IMDG) Max. per outer pack. : 30.00 KG Limited quantity (IMDG) Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
Limited quantity (IMDG) : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Note If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to th If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to the If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject and marking requirements of the IMDG code, but both full documentation and placardin, still required.	
If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subjeand marking requirements of the IMDG code, but both full documentation and placardin	
and marking requirements of the IMDG code, but both full documentation and placardin still required.	e provisions of ADR.
The product is classified and labelled in accordance with Directive 1999/45/EC.	
*	
Irritant Dangerous for the environment	
 Hazardous components which must be listed on the label: epoxy resin (MW <=700) 	

This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.

SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1



Print Date 3/30/2007 Revision date 16-03-07

R-phrase(s)	: R10	Flammable.
	R36/38	Irritating to eyes and skin.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S23	Do not breathe spray.
	S36/37	Wear suitable protective clothing and gloves.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
P-phrase(s)	:	Contains epoxy constituents. See information supplied by the manufacturer.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

National legislation

16. OTHER INFORMATION

Explanation of R-phrases mentioned in section 2

xylene	R10 R20/21 R38	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.
iso-butanol	R10 R37/38 R41 R67	Flammable. Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.
ethylbenzene	R11 R20	Highly flammable. Harmful by inhalation.
epoxy resin (MW <=700)	R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Trizinc bis(orthophosphate)	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
amide wax	R20 R53	Harmful by inhalation. May cause long-term adverse effects in the aquatic environment.

This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.

SIGMASHIELD 825 BASE

MSDS EU 01 / EN Version 1



Print Date 3/30/2007 Revision date 16-03-07

Version: 1

Revision date 16.03.2007

The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers. control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.

For further information see technical data sheet number: 7745