SAFETY DATA SHEET

P21PR00/1003 246 HV PU PRIMER

Date of issue/ Date of revision : 9/2/2015.

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

1.1 Product identifier

Product name : P21PR00/1003 246 HV PU PRIMER

Product code : 330/0123

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

Industrial use PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

1.3 Details of the supplier of the safety data sheet

Becker Industrial Coatings Ltd
Goodlass Road
Speke
Liverpool
L24 9HJ
Tel +44 151 448 1010
Fax +44 151 448 2589

e-mail address of person responsible for this SDS : she@beckers-group.com

1.4 Emergency telephone number

Supplier

Telephone number : +44 (0) 151 448 1010

Hours of operation : Monday to Thursday 08:30 - 16:45 and Friday 08:30 - 15:45

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226
Skin Sens. 1, H317
Carc. 1B, H350
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : 8.7 percent of the mixture consists of component(s) of unknown toxicity

Ingredients of unknown ecotoxicity : Contains 3.4 % of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms :

Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H350 - May cause cancer.
H304 - May be fatal if swallowed and enters airways.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P273 - Avoid release to the environment.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage : Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Solvent naphtha (petroleum), heavy arom.
strontium chromate
Solvent naphtha (petroleum), heavy arom.
hydrocarbons C9 aromatics
Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
dibutyltin dilaurate

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification 67/548/EEC	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Solvent naphtha (petroleum), heavy arom. Note H	REACH #: 01-2119463583-34 EC: 265-198-5 CAS: 64742-94-5	≥12 - <25	Xn; R65 R66, R67 N; R51/53	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
strontium chromate	REACH #: 01-2119548391-39 EC: 232-142-6 CAS: 7789-06-2	≥5 - <10	Carc. Cat. 2; R45 Xn; R22 N; R50/53	Acute Tox. 4, H302 Carc. 1B, H350 Aquatic Acute 1,	[1] [2]

SECTION 3: Composition/information on ingredients

	Index: 024-009-00-4			H400 Aquatic Chronic 1, H410	
Solvent naphtha (petroleum), heavy arom.	REACH #: 01-2119463588-24 EC: 919-284-0 CAS: 64742-94-5	≥5 - <10	Xn; R65 R66, R67 N; R51/53	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
hydrocarbons C9 aromatics	REACH #: 01-2119455851-35 EC: 918-668-5	≥3.3 - <5	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
Hexane, 1, 6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked	REACH #: 01-2119488520-37 CAS: 85940-94-9	≥1 - <3	Xn; R48/20 Xi; R38 R43	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 (inhalation)	[1]
1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate	REACH #: 01-2119451093-47 EC: 229-934-9 CAS: 6846-50-0	≥1 - <3	Not classified.	Aquatic Chronic 3, H412	[1]
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥1 - <2	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Solvent naphtha (petroleum), light arom. Note H, P	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≥1.1 - <3	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
naphthalene	REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	≥0.3 - <1	Carc. Cat. 3; R40 Xn; R22 N; R50/53	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7	≥0.1 - <0.2	Muta. Cat. 3; R68 Repr. Cat. 2; R60, R61 T; R48/25 C; R34 R43 N; R50/53	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD (Fertility and Unborn child) STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400	[1] [2]

SECTION 3: Composition/information on ingredients

				Aquatic Chronic 1, H410	
			See Section 16 for the full text of the R-phrases declared above.	**See Section 16 for the full text of the H statements declared above.**	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
Ingestion may cause nausea, diarrhea and vomiting.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), dibutyltin dilaurate. May produce an allergic reaction.

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO_2, powders, water spray.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear antistatic footwear and clothing and floors should be of the conducting type.
Keep away from heat, sparks and flame. No sparking tools should be used.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or watercourses.
Information on fire and explosion protection
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.
Notes on joint storage
Keep away from: oxidising agents, strong alkalis, strong acids.
Additional information on storage conditions
Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	CAS no.	Exposure limit values
strontium chromate	7789-06-2	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Skin sensitiser.** TWA: 0.05 mg/m³, (as Cr) 8 hours.
naphthalene	91-20-3	**EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values** TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours.

SECTION 8: Exposure controls/personal protection

dibutyltin dilaurate	77-58-7	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.** STEL: 0.2 mg/m³, (as Sn) 15 minutes. TWA: 0.1 mg/m³, (as Sn) 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Solvent naphtha (petroleum), heavy arom. Note H	DNEL	Long term Dermal	12.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	151 mg/m³	Workers	Systemic
strontium chromate	DNEL	Long term Dermal	0.0002 mg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.0005 mg/m³	Workers	Systemic
Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked	DNEL	Short term Dermal	1.5 mg/m³	Workers	Local
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	DNEL	Long term Dermal	31.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	110 mg/m³	Workers	Systemic
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	DNEL	Short term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	12.3 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12.3 mg/m³	Workers	Systemic
Solvent naphtha (petroleum), light arom.Note H, P	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
dibutyltin dilaurate	DNEL	Short term Dermal	1 mg/kg bw/day	Workers	Systemic

SECTION 8: Exposure controls/personal protection

	DNEL	Short term Inhalation	0.07 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.01 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
strontium chromate	Fresh water	0.0047 mg/l	-
	Marine	0.0047 mg/l	-
	Fresh water sediment	31 mg/kg wwt	-
	Marine	31 mg/kg wwt	-
	Soil	3.2 mg/kg wwt	-
	Sewage Treatment Plant	10 mg/l	-
Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked	Fresh water	0.00161 mg/l	-
	Marine	0.000161 mg/l	-
	Marine water sediment	0.0167 mg/kg dwt	-
	Soil	0.0324 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l	-
	Marine water	0.0014 mg/l	-
	Fresh water sediment	1.15 mg/kg wwt	-
	Marine water sediment	0.115 mg/kg wwt	-
	Soil	0.926 mg/kg wwt	-
	Sewage Treatment Plant	3 mg/l	-
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	Fresh water	3 µg/l	-
	Fresh water	0.006 mg/l	-
	Marine	0.3 µg/l	-
	Marine water	0.0006 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.5 mg/kg dwt	-
	Fresh water sediment	0.996 mg/kg	-

SECTION 8: Exposure controls/personal protection

	Marine water sediment	0.5 mg/kg dwt	-
	Marine water sediment	0.996 mg/kg	-
	Sediment	0.05 mg/kg dwt	-
	Soil	0.196 mg/kg	-
dibutyltin dilaurate	Fresh water sediment	0.05 mg/kg	-
	Fresh water	0.000463 mg/l	-
	Marine water	0.000046 mg/l	-
	Marine water sediment	0.005 mg/kg wwt	-

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Gloves : Gloves must be worn for all work that may result in soiling. Wear protective gloves: Nitrile gloves. Change the protective gloves frequently during handling and never use them longer than their lifetime. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid.
Colour	:	Yellow.
Odour	:	Strong
Odour threshold	:	There are no data available on the mixture itself.
pH	:	There are no data available on the mixture itself.
Melting point/freezing point	:	There are no data available on the mixture itself.
Initial boiling point and boiling range	:	There are no data available on the mixture itself.
Flash point	:	Closed cup: 33°C
Evaporation rate	:	There are no data available on the mixture itself.
Flammability (solid, gas)	:	There are no data available on the mixture itself.
Burning time	:	There are no data available on the mixture itself.
Burning rate	:	There are no data available on the mixture itself.
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 0.6% Upper: ≤13% (Solvent naphtha (petroleum), heavy arom. Note H)
Vapour pressure	:	There are no data available on the mixture itself.
Vapour density	:	There are no data available on the mixture itself.
Relative density	:	1.29
Solubility(ies)	:	There are no data available on the mixture itself.
Solubility in water	:	There are no data available on the mixture itself.
Partition coefficient: n-octanol/ water	:	There are no data available on the mixture itself.
Auto-ignition temperature	:	There are no data available on the mixture itself.
Decomposition temperature	:	There are no data available on the mixture itself.
Viscosity	:	Kinematic (40°C): <0.2 cm^2/s
Explosive properties	:	There are no data available on the mixture itself.
Oxidising properties	:	There are no data available on the mixture itself.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
Ingestion may cause nausea, diarrhea and vomiting.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), dibutyltin dilaurate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), heavy arom. Note H	LC50 Inhalation Vapour	Rat	>590 mg/m³	4 hours
	LD50 Dermal	Rabbit	>2 mL/kg	-
	LDLo Oral	Rat	5 mL/kg	-
strontium chromate	LD50 Oral	Rat	3118 mg/kg	-
Solvent naphtha (petroleum), heavy arom.	LDLo Oral	Rat	5 mL/kg	-
hydrocarbons C9 aromatics	LC50 Inhalation Vapour	Rat	6193 mg/l	4 hours
	LD50 Dermal	Rabbit	3160 mg/kg	-
	LD50 Oral	Rat	3492 mg/kg	-
Solvent naphtha (petroleum), light arom.Note H, P	LC50 Inhalation Vapour	Rat	>6.193 mg/l	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
	LD50 Oral	Rat	3592 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
	LDLo Oral	Child	100 mg/kg	-
	LDLo Unreported	Human	29 mg/kg	-
	TDLo Oral	Mouse	158 mg/kg	-
dibutyltin dilaurate	LD Dermal	Rabbit	>2 g/kg	-

SECTION 11: Toxicological information

	LD50 Oral	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	175 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	5714.3 mg/kg

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. Note H	Category 3	Not applicable.	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	Not applicable.	Narcotic effects
hydrocarbons C9 aromatics	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Solvent naphtha (petroleum), light arom.Note H, P	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
dibutyltin dilaurate	Category 1	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked	Category 2	Inhalation	Not determined
dibutyltin dilaurate	Category 1	Not determined	Not determined

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), heavy arom. Note H	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
hydrocarbons C9 aromatics	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.Note H, P	ASPIRATION HAZARD - Category 1

SECTION 11: Toxicological information

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light arom.Note H, P	Acute EC50 6.14 mg/l	Daphnia	48 hours
	Acute LC50 9.22 mg/l	Fish	96 hours
naphthalene	Acute EC50 1600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 2160 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Acute LC50 313 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Solvent naphtha (petroleum), light arom.Note H, P	-	78 % - 28 days	-	-

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Solvent naphtha (petroleum), heavy arom. Note H	2.8 to 6.5	99 to 5780	high
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	99 to 5780	high
Solvent naphtha (petroleum), light arom.Note H, P	-	10 to 2500	high
naphthalene	3.4	36.5 to 168	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Disposal considerations : Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.
If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.
For further information, contact your local waste authority.

European waste catalogue (EWC)

EWC 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.
Empty containers must be scrapped or reconditioned.
Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)	
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by dangerous substances

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 	3 
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Additional information	**Special provisions** 640 (E) **Tunnel code** (D/E)	-	-

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
strontium chromate	Carcinogen	Listed	-	8/14/2014

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
strontium chromate	Carcinogen	Candidate	ED/31/2011	6/30/2011

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

SECTION 15: Regulatory information

VOC for Ready-for-Use Mixture : Not applicable.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
strontium chromate	Carc. 1B, H350	-	-	-
naphthalene	Carc. 2, H351	-	-	-
dibutyltin dilaurate	-	Muta. 2, H341	Repr. 1B, H360D (Unborn child)	Repr. 1B, H360F (Fertility)

National regulations

Industrial use : 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.

Product/ingredient name	List name	Name on list	Classification	Notes
strontium chromate	UK Occupational Exposure Limits EH40 - WEL	chromium (VI) compounds	Carc.	-

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

CEPE code : 1

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
Carc. 1B, H350	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements :

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

SECTION 16: Other information

H351	Suspected of causing cancer.
H360FD (Fertility and Unborn child)	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373 (inhalation)	May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS] :

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Carc. 1B, H350	CARCINOGENICITY - Category 1B
Carc. 2, H351	CARCINOGENICITY - Category 2
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2
Repr. 1B, H360FD (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 1B
Skin Corr. 1C, H314	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT RE 2, H373 (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 2
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Full text of abbreviated R phrases :

R10- Flammable.
R45- May cause cancer.
R40- Limited evidence of a carcinogenic effect.
R68- Possible risk of irreversible effects.
R60- May impair fertility.
R61- May cause harm to the unborn child.
R48/25- Also toxic: danger of serious damage to health by prolonged exposure if swallowed.
R22- Also harmful if swallowed.
R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Also harmful: may cause lung damage if swallowed.
R34- Causes burns.
R37- Irritating to respiratory system.
R38- Irritating to skin.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

SECTION 16: Other information

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD] : Carc. Cat. 2 - Carcinogen category 2
Carc. Cat. 3 - Carcinogen category 3
Muta. Cat. 3 - Mutagen category 3
Repr. Cat. 2 - Toxic to reproduction category 2
T - Toxic
C - Corrosive
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

Date of printing : 9/2/2015.

Date of issue/ Date of revision : 9/2/2015.

Date of previous issue : 6/1/2015.

Version : 2

Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. 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.