according to 1907/2006/EC, Article 31

Version number 75

WHEEL PAINTS

Revision: 04.12.2010

· Product identifier

Printing date: 04.12.2010

· Product name: 2K-Hardener

- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation Hardening agent/ Curing agent
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

WHEELPAINTS 5 Millbrook Close Northampton NN5 5JF

Fax.: +44(0)604757411 e-mail: info@wheelpaints.co.uk

www.wheelpaints.co.uk

- · Further information obtainable from:
- · Emergency telephone number:

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Sensitising

R43: May cause sensitisation by skin contact.

R10-52/53-66-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent. Has a narcotizing effect.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Xi Irritant

 Hazard-determining components of labelling: Hexamethylene dissocyanate, oligomers

- · Risk phrases:
- 10 Flammable.
- 43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 66 Repeated exposure may cause skin dryness or cracking.

- 67 Vapours may cause drowsiness and dizziness.
- · Safety phrases:
- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking. 23 Do not breathe fumes.

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24/25 Avoid contact with skin and eyes. 37 Wear suitable gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

- Special labelling of certain preparations:
- Contains isocyanates. See information supplied by the manufacturer
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

CAS: 123-86-4	n-butyl acetate	50-100%
EINECS: 204-658-1	R10-66-67	
	Flam. Liq. 3, H226; STOT SE 3, H336	
	Hexamethylene diisocyanate, oligomers	25-50%
NLP: 500-060-2	R43 Skin Sens. 1, H317	
CAS: 141-78-6 EINECS: 205-500-4	•	10-25%
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 64742-95-6 EINECS: 265-199-0	, ,	≤ 2.5%
	№ 0-66-67 №	
CAS: 4083-64-1 EINECS: 223-810-8		≤ 1.0%
	Resp. Sens. 1, H334; STOT SE 3, H335; Skin Irrit. 2, H315; Eye	
CAS: 77-58-7	dibutyltin dilaurate	≤ 1.0%
EINECS: 201-039-8	T R60-61-48/25; Xn R21/22-68; Xi R36/38; N R50/53 Acute Tox. 3, H201; Muta. 2, H241; Repr. 18, H360; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information: In case of irregular breathing or respiratory arrest provide artificial respiration.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

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· Information for doctor:

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

In case of fire, the following can be

released: Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

- as such usable (inflammatory!):

water 45 Vol.% ethanol or isopropanol 50 Vol.% ammonia solution (Density= 0.88) 5 Vol.%

- alternatively (non-flammable):

sodium carbonate 5 Vol.% water 95 Vol.%

Add the same decontaminant to any residues and allow to stand for several days in an non -sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection

equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

- · Storage class: 3
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters

ents with limit values that require monitoring at the
ace: 123-86-4 n-butyl acetate
Short-term value: 966 mg/m³, 200
Long-term value: 724
mg/m³, 150 ppm
11-2 Hexamethylene diisocyanate, oligomers
Short-term value: 0.5 mg/m ³
exposition evaluation valu TRGS 430 (EBW)
6 ethyl acetate
Short-term value: 400 ppm
Long-term value: 200 ppm
dibutyltin dilaurate
Short-term value: 0.2 mg/m³
Long-term value: 0.1
mg/m³ as Sn; Sk

- · Exposure controls
- Personal protective equipment:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- · Appearance:

Form:

Colour: · Odour: Fluid

According to product specification

· Odour threshold: Characteristic

· pH-value: Not determined. · Change in condition Not determined. Melting point/Melting range: Boiling Undetermined. point/Boiling range: 77°C · Flash point: 24°C (DIN 53213) · Ignition temperature: 370°C (DIN 51794) Decomposition temperature: Not determined. Self-igniting: Product is not selfigniting. - Danger of explosion: Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. · Explosion limits: Lower:

1.2 Vol % Upper:

11.5 Vol % Vapour pressure at 20°C:

- Density at 20°C: 97 hPa

0.964 g/cm3 (DIN 53217)

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Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Segregation coefficient (n-octan	ol/water): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C:	13 s (DIN 53211/4)
Solvent content:	
Organic solvents:	65.4 %
VOC (EC)	630.6 g/l
Solids content (weight-%):	34.6 %
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Possible in traces.

Nitrogen oxides

Hydrogen chloride (HCI)

Hydrogen cyanide (prussic

acid) Carbon monoxide

Nitrogen oxides (NOx)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· Acute toxicity:				
· LD/LC50 values relevant for classification: 64742-				
95-6 Solvent naphtha (petroleum), light arom.				
Oral	LD50	>6800 mg/kg (rat)		
Dermal	LD50	>3400 mg/kg (rab)		
Inhalative	LC50/4 h	>10.2 mg/l (rat)		
77-58-7 dibutyltin dilaurate				
Oral	LD50	175 mg/kg (rat)		
. Primary irritant effect:				

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

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· Sensitisation May cause sensitisation by skin contact.

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Harmful to aquatic organisms

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 3 (F1) Flammable liquids.

Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3

· UN proper shipping name: 1263 PAINT RELATED MATERIAL, special provision 640E

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 Tunnel restriction code D/E

Maritime transport

IMDG:



· IMDG Class: - UN Number: 1263 Label 3 Packaging group: Ш F-E,S-E EMS Number: Marine pollutant: No

· Proper shipping name: PAINT RELATED MATERIAL

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: · UN/ID Number: 1263 · Label Packaging group: Ш

· Proper shipping name: PAINT RELATED MATERIAL

- · Special precautions for user Warning: Flammable liquids.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- Information about limitation of use:

None of the ingredients is listed.

Class	Share in %
ı	≤ 1,0
NK	50-100

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

- · Relevant phrases
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

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H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H341	Suspected of causing genetic defects.		
H360	May damage fertility or the unborn child.		
H372	Causes damage to organs through prolonged or repeated exposure.		
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.		
R10	Flammable.		
R11	Highly flammable.		
R14	Reacts violently with water.		
R21/22			
R36	Irritating to eyes.		
R36/37/38 Irritating to eyes, respiratory system and skin.			
R36/38			
R37	Irritating to respiratory system.		
R42	May cause sensitisation by inhalation.		
R43	May cause sensitisation by skin contact.		
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.		
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.		
R60	May impair fertility.		
R61	May cause harm to the unborn child.		
R65	Harmful: may cause lung damage if swallowed.		
R66	Repeated exposure may cause skin dryness or cracking.		
R67	Vapours may cause drowsiness and dizziness.		
R68	Possible risk of irreversible effects.		

GB

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.