sikkens

SAFETY DATA SHEET

REDOX AK PRIMER

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

Product name and/or code : REDOX AK PRIMER

Manufacturer/Distributor : AkzoNobel Decorative Coatings
Wexham Road
Slough, Berkshire
United Kingdom, SL2 5DS
Tel Number: +44 (0) 1753 550000
Fax Number: +44 (0) 845 372 3421

e-mail address of person responsible for this SDS : sikkens.advice@akzonobel.com

Product use : Solvent borne coating for interior and exterior use.

Emergency telephone number (with hours of operation) : Emergency number is - 01753 550000 (24 hours)
International Sikkens 24 hours emergency number :
Tel.: +31 71 3086944

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10
R52/53

Physical/chemical hazards : Flammable.

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

Additional warning phrases : Contains 2-butanone oxime, hexanoic acid, 2-ethyl-, cobalt salt. May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	CAS number	%	EC number	Classification	
Distillates (petroleum), hydrotreated light	64742-47-8	2.5 - 10	265-149-8	Xn; R65 R66	[1] [2]
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	2.5 - 10	265-185-4	R10 Xn; R65 R66, R67 N; R51/53	[1] [2]
silica, crystalline - quartz	14808-60-7	2.5 - 10	238-878-4	Xn; R48/20	[1] [2]
Naphtha (petroleum), hydrotreated heavy	64742-48-9	1 - 2.5	265-150-3	Xn; R65	[1] [2]

3. COMPOSITION/INFORMATION ON INGREDIENTS

2-butanone oxime	96-29-7	0 - 1	202-496-6	R66 Carc. Cat. 3; R40 Xn; R21 Xi; R41 R43	**[1]**
hexanoic acid, 2-ethyl-, cobalt salt	13586-82-8	0 - 1	237-015-9	Xn; R22 Xi; R38 R43 N; R51/53	**[1] [2]**
See section 16 for the full text of the R-phrases declared above					

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Workplace exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

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.

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. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

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.

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

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

5. FIRE-FIGHTING MEASURES

Extinguishing media : Recommended: alcohol-resistant foam, CO_2, powders, water spray.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Spill : 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). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product enters drains or sewers, immediately contact the local water company; in the case of contamination of streams, rivers or lakes, the relevant environment agency.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling : Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the workplace 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.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. 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 preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

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.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely 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.

Storage : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidising agents, strong alkalis, strong acids.
No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : All engineering control measures used to control exposure to hazardous substances must be selected, maintained, examined and tested to meet the requirements of the Control of Substances Hazardous to Health Regulations (COSHH). Similarly all personal protective equipment, including respiratory protective equipment, must be selected, issued and maintained to meet the requirements of COSHH. These requirements include the provision of any necessary information, instruction and training with regard to their use. Special precautions should be taken during surface preparation of pre-1960's paint surfaces over wood and metal as they may contain harmful lead.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 WEL, suitable respiratory protection must be worn.

Ingredient name	Workplace exposure limits
Distillates (petroleum), hydrotreated light	**EU OEL (Europe).** TWA: 1200 mg/m³ 8 hour(s).
Naphtha (petroleum), hydrodesulfurized heavy	**EU OEL (Europe).** STEL: 600 mg/m³ 15 minute(s). TWA: 300 mg/m³ 8 hour(s).
silica, crystalline - quartz	**EH40-WEL (United Kingdom (UK), 9/2006).** WEL 8 hrs limit: 0,1 mg/m³ 8 hour(s). Form: respirable dust
Naphtha (petroleum), hydrotreated heavy	**EU OEL (Europe).** TWA: 1200 mg/m³ 8 hour(s).
hexanoic acid, 2-ethyl-, cobalt salt	**EH40-WEL (United Kingdom (UK), 9/2006). Skin sensitiser Notes: As Co** WEL 8 hrs limit: 0,1 mg/m³, (As Co) 8 hour(s).

Personal protective equipment

Respiratory system : 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.

Skin and body : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Hands

Gloves : For prolonged or repeated handling, use the following type of gloves:

Not recommended: neoprene, butyl rubber, PVC
Recommended: foil, fluor rubber, nitrile rubber

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

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.

Eyes : Use safety eyewear designed to protect against splash of liquids.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Flash point : Closed cup: 30°C (86°F)

Viscosity : Kinematic: 4,52 cm^2/s (452 cSt)

Relative density : 1,374

Solubility : Insoluble in the following materials: cold water.

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated workplace 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation 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.

Contains 2-butanone oxime, hexanoic acid, 2-ethyl-, cobalt salt. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
silica, crystalline - quartz	LDLo Intratracheal	Rat	250 mg/kg	-
	LDLo Intratracheal	Rat	200 mg/kg	-
	LDLo Intravenous	Rat	90 mg/kg	-
	TDLo Intratracheal	Rat	50 mg/kg	-
	TDLo Intratracheal	Rat	30 mg/kg	-
	TDLo Intratracheal	Rat	25 mg/kg	-
	TDLo Intratracheal	Rat	15,69 mg/kg	-
	TDLo Intratracheal	Rat	10 mg/kg	-
	TDLo Intratracheal	Rat	5 mg/kg	-
	TDLo Intratracheal	Rat	1,5 mg/kg	-
	TDLo Intratracheal	Rat	1 mg/kg	-
	TDLo Intratracheal	Rat	1250 ug/kg	-
	TDLo Intratracheal	Rat	150 mg/kg	-
	TDLo Intratracheal	Rat	100 mg/kg	-
	TDLo Oral	Rat	120 g/kg	-
2-butanone oxime	LD Dermal	Rat	>2 g/kg	-
	LD50 Dermal	Rabbit	200 uL/kg	-
	LD50 Oral	Rat	930 mg/kg	-
	LD50 Subcutaneous	Rat	2702 mg/kg	-

11. TOXICOLOGICAL INFORMATION

	TDLo Oral	Rat	200 mg/kg	-
	TDLo Oral	Rat	600 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Product name	List name	Name on list	Classification	Notes
hexanoic acid, 2-ethyl-, cobalt salt	UK Occupational Exposure Limits EH40 - WEL	cobalt compounds	Carc.	

12. ECOLOGICAL INFORMATION

There is no data available on the preparation 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 3 and 15 for details.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
distillates (petroleum), hydrotreated light	Mortality	Acute LC50 5900 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus	4 days
	Mortality	Acute LC50 2900 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Mortality	Acute LC50 2600 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
	Mortality	Acute LC50 2400 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
	Mortality	Acute LC50 2200 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus	4 days
2-butanone oxime	Mortality	Acute LC50 843000 to 914000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

Conclusion/Summary : Not available.

12. ECOLOGICAL INFORMATION

Biodegradability

Conclusion/Summary : Not available.

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.

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

14. TRANSPORT INFORMATION

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.

Land - road/railway

UN number : UN1263
Transport document name : PAINT
Special provision 640 : E
ADR/RID Class : 3
Packing group : III
ADR/RID Label : Exempted according to 2.2.3.1.5 (Viscous substance exemption)

Sea

UN number : UN1263
Proper shipping name : PAINT
Special provisions : Not available.
IMDG Class : 3
Packing group : III
IMDG Label : Exempted according to 2.3.2.5 (Viscous substance exemption)

Marine pollutant : No.
Emergency schedules (EmS) : F-E, S-E

Air

UN number : UN1263
Proper shipping name : PAINT
Special provisions : Not available.
ICAO/IATA Classification : 3
Packing group : III

The "viscosity exemption" provisions do not apply to air transport.

ICAO/IATA label :

14. TRANSPORT INFORMATION

Inland waterways

UN number : UN1263

Proper shipping name : PAINT

ADNR Classification : 3

Packing group : III

ADNR Label :

15. REGULATORY INFORMATION

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Risk phrases : R10- Flammable.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

Additional warning phrases : Contains 2-butanone oxime, hexanoic acid, 2-ethyl-, cobalt salt. May produce an allergic reaction.

16. OTHER INFORMATION

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R10- Flammable.
R40- Limited evidence of a carcinogenic effect.
R21- Harmful in contact with skin.
R22- Harmful if swallowed.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R41- Risk of serious damage to eyes.
R38- Irritating to skin.
R43- May cause sensitisation by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP Regulations.

Further information and relevant advice can be found in:

- **The Control of Substances Hazardous to Health Regulations (As amended).**
- **The Manual Handling Operations Regulations (As amended).**
- **The Environmental Protection (Duty of Care) Regulations (As amended).**
- **'EH40 : Workplace exposure limits.**

Date of issue/Date of revision : **17-2-2009.**

16. OTHER INFORMATION

Version : **8**

Notice to reader

FOR PROFESSIONAL USE ONLY
IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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