



HPL Additives Limited

SAFETY DATA SHEET

In Accordance with OHSAS 29CFR 1910.1200 HCS

KINOX®-24

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

| | | |
|---|---|--|
| Product identifier | : | KINOX®-24 |
| Trade Name | : | KINOX®-24 |
| Substance Name | : | 2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]] propionohydrazide |
| CAS Number | : | 32687-78-8 |
| Relevant identified uses of the substances or mixture and uses advised against | : | |
| Identified uses | : | Antioxidant Plastic Additives |
| Detail of the supplier of the safety data sheet | | |
| Manufacturer /Supplier | : | HPL Additives Ltd. 5 th Floor, Block A, Vatika Mindscapes, 12/3, Main Mathura Road, Faridabad – 121003, Haryana (INDIA) |
| Telephone | : | +91- 0129- 2251300 |
| Fax | : | +91- 0129- 2251 304 +91- 0129- 2251 305 |
| e-mail | : | hpla@hpladditives.com |
| Prepared by | : | Product Compliance and Regulatory Affairs Department. |
| Emergency telephone number | : | |
| Emergency telephone # | : | +91-9910486231 |

2 HAZARDS IDENTIFICATION

| | |
|---|--|
| Classification of the substance or mixture | |
| Classification according to GHS | : Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects |
| Classification according to GHS | : R 52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment. |
| Label elements | |
| Classification according to GHS | : The substance is classified and labelled according to the GHS. |
| Pictograms | : Void |
| Signal word | : Void |
| Hazard statements | : H412 Harmful to aquatic life with long lasting effects |
| Precautionary statements | : P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Other hazardous Results of PBT and vPvB assessment | |
| PBT | : No |
| vPvB | : No |

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Characterization | CAS number | Identification name | Weight % content (or range) | EC Number |
|---------------------------|------------|---|-----------------------------|-----------|
| Substance | 32687-78-8 | 2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]]propionohydrazide | >99 | 251-156-3 |

4 FIRST AID MEASURES

Description of first aid measures

| | | |
|----------------------------|---|--|
| General information | : | Take affected persons out of danger area and lay down. |
| Inhalation | : | Supply fresh air; consult doctor in case of complaints. |
| Skin contact | : | Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. |
| Eye contact | : | Rinse opened eye for several minutes under running water. If eye irritation persists, consult a doctor. |
| Swallowing | : | Rinse out mouth and then drink plenty of water. If symptoms persist consult a doctor. |

Most important symptoms and effects, both acute and delayed

| | | |
|----------|---|----------------|
| Symptoms | : | None Known |
| Risk | : | No information |

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed

No information available

5 FIRE FIGHTING MEASURES

Extinguishing media

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| Suitable extinguishing Media | : | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions. |
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| Unsuitable extinguishing agents | : | DO NOT use water jet. |
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Special hazards arising from the substance or mixture

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| Specific hazards during fire fighting | : | Irritant fumes generated on burning. May form explosive dust-air mixture. |
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| Advice for firefighters | : | Full protective clothing and self-contained breathing apparatus must be worn during fire fighting. |
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| Other Information | : | During fire fighting contaminated water from fire hoses or sprinklers etc., must be prevented from draining into water courses, sewers, or the ground water. |
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6 ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation Wear protective clothing. Avoid formation of dust. Keep away from ignition sources. |
| Environmental precautions | : Do not allow to enter sewers/ surface or ground water |
| Methods and materials for containment and cleaning up | : Pick up mechanically. Dispose of the material collected according to regulations. |
| 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

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| Precautions for safe handling Information for safe handling | : Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Ensure good ventilation/exhaustion at the workplace. |
| Information about fire and explosion protection | : Dust can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. |
| Conditions for safe storage, including any incompatibilities | |
| Requirements to be met by Store rooms and receptacles | : Store only in the original receptacle. |
| Information about storage in one common storage facility | : Store away from oxidizing agents. |
| Further information about storage conditions | : Store in cool, dry conditions in well sealed receptacles. |
| Specific end uses | : Antioxidant/Stabiliser |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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|---|---|---|
| Control parameters | : | Components with workplace control parameters |
| Exposure controls Engineering measures | : | Adequate ventilation is recommended to control airborne levels. Use with local exhaust ventilation and mechanical ventilation for general area control. |
| Ingredients with limit values that require monitoring at the workplace | : | Not required. |
| Personal protective equipment | | |
| General protective and hygienic measure | : | Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. The usual precautionary measures are to be adhered to when handling chemicals. |
| Respiratory protection | : | Use adequate ventilation to keep airborne concentrations low. If vent inadequate use NIOSH/MSHA/European Standard EN 149 approved respirator. If user develops sensitivity to respiratory tract whilst using product, the user should not be exposed to the product any longer. Allergy to the product normally takes the form of an asthmatic type of attack e.g., wheezing, tightness of breath. Seek medical advice. |
| Protection of hands | : | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| Material of gloves | : | Neoprene gloves PVC gloves Rubber gloves |
| Penetration time of glove material | : | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| Eye protection | : | Safety glasses |
| Body protection | : | Protective work clothing |
| Environmental exposure controls General advice | : | Avoid release to the environment. Do not release in surface water of sewer system and avoid subsoil penetration. |

9 PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic physical and chemical properties | |
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| Sr. | Physical and chemical properties : Value |
| a | Appearance : White to slight yellowish crystalline powder |
| b | Odour : Odourless |
| c | Odour threshold : No data available |
| d | pH-value : No data available |
| e | Melting point/Melting range (°C) : 221-232 |
| f | Boiling point/Boiling range (°C) : Undetermined. |
| g | Flash point (°C) : > 180 |
| h | Evaporation rate : No data available |
| i | Flammability (solid, gaseous) : Product is not flammable. |
| j | Explosion limits |
| | Lower : No data available |
| | Upper : No data available |
| k | Vapour pressure at 20°C : No data available |
| l | Vapour density : No data available |
| m | Relative density (g/cm³) : 1.11 |
| n | Solubility in / Miscibility with water at 20°C (g/l) : < 0.001 |
| o | Partition coefficient (n-octanol/water) log POW : No data available |
| p | Auto Ignition temperature(°C) : No data available |
| q | Decomposition temperature(°C) : No data available |
| r | Viscosity |
| | Dynamic : Not applicable |
| | Kinematic : Not applicable |
| s | Explosive properties/ Danger of explosion : Product does not present an explosion hazard. |
| t | Oxidizing properties : No data available |
| | Other information : No data available |

10 STABILITY AND REACTIVITY

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|---|---|
| Reactivity | : No data available |
| Chemical stability | : Stable under specified conditions. |
| Possibility to hazardous reactions | : Hazardous polymerization does not occur. |
| Conditions to be avoided | : Excess heat, ignition sources, heat source and dust generation. |
| Incompatible materials | |
| Materials to be avoided | : Strong oxidizing agents |
| Hazardous decomposition products | No dangerous reactions known but may produce oxide of carbon. Risk of dust explosion. |

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | | |
|---|---|--|
| Acute toxicity | : | Oral LD50 > 7000 mg/kg ((Rat) Dermal LD50 > 3000 mg/kg (Rat) Inhalative LC50(1h) > 0.11 mg/l (Rat) |
| Primary irritant effect | : | |
| On the skin | : | No irritant effect (Rabbit). |
| On the eye | : | No irritating effect (Rabbit). |
| Sensitization (Respiration or skin) (Guinea pig) | : | No sensitizing effects known (Guinea pig). |
| Germ cell mutagenicity | : | Not classified due to non availability of data. |
| Carcinogenicity | : | Not classified due to non availability of data. |
| Teratogenicity | : | Not classified due to non availability of data. |
| Target Organ Systematic Toxicant-Single exposure | : | Not classified due to non availability of data. |
| Target Organ Systematic Toxicant-Repeated exposure | : | Not classified due to non availability of data. |
| Exposure route: Oral | : | The substance or mixture is not classified as specific target organ toxicant. |
| Aspiration hazard | : | No aspiration toxicity classification. |
| Additional toxicological Information | : | When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists. |
| Toxicological Assessment | : | No data available. |

12 ECOLOGICAL INFORMATION

| | | |
|---|---|---|
| Toxicity | : | EC50 (24h) > 15 mg/l (Daphnia) LC50 (96h) > 100 mg/l (Fish) |
| Persistence and degradability | : | Not readily biodegradable. |
| Bioaccumulation potential | : | Not worth-mentioning accumulation in organisms. |
| Mobility in soil | : | No data available |
| Results of PBT & vPvB Assessment | : | Neither persistent, bioaccumulating nor toxic. |
| Other adverse effect | : | |
| Additional ecological information | : | Avoid release to the environment |
| General notes | : | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water |

13 DISPOSAL CONSIDERATIONS

Waste product treatment methods

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|-----------------------------|---|---|
| Product | : | Must be specially treated adhering to official regulations. |
| Un cleaned packaging | : | Disposal must be made according to official regulations. |

14 TRANSPORTATION INFORMATION

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|--|---|--|
| Land transport ADR/RID (cross-border) ADR/RID class | : | Not classified |
| Maritime transport IMDG IMDG Class | : | Not classified |
| Air transport ICAO-TI and IATA-DGR ICAO/IATA Class | : | Not classified |
| Transport/Additional information | : | Not dangerous according to the above specifications. |

15 REGULATORY INFORMATION

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

| | | |
|---------------------------------|---|---|
| Hazard statements | : | H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. |

16 OTHER INFORMATION

NFPA Ratings (Scale 0-4)

Health = 1 Flammability = 1 Reactivity = 0

HIMS Ratings (Scale 0-4)

Health = 0 Flammability = 1 Reactivity = 0

Notification status

| | | | |
|----------------------------|---|-------------|----------|
| Notification status | : | EU | - EINECS |
| | | USA | - TSCA |
| | | Canada | - DSL |
| | | Japan | - ENCS |
| | | Australia | - AICS |
| | | Korea | - ECL |
| | | Philippines | - PICCS |
| | | China | - IECSC |
| | | New Zealand | - NZIOC |

This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organization responsible for advising on safety matters.

The information given in this document is only a recommendation believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity and to test our products as to their suitability for the intended use. The whole document is subject to change without any prior notice at our sole discretion. We are under no obligation to call back earlier issued documents.