Kao Corporation

GLOBAL PRODUCT STRATEGY SAFETY SUMMARY

KAO AKYPO RLM-100NV

This document is a high-level summary that provides usage of chemical substances and safety information to the general public. It is not intended to replace the Safety Data Sheet, which is available from suppliers and should be referred to for full details of recommended safety procedures for each type of use. It is not intended to replace or supersede manufacturers' instructions and warnings for their consumer products containing this substance.

1. Substance Identity

Brand Name: KAO AKYPO RLM-100NV

Chemical Name: Sodium polyoxyethylene (10) lauryl ether carboxylate (Main component)

CAS Number: 33939-64-9 (Main component)

2. Uses and Applications

KAO AKYPO RLM-100NV is an anionic surfactant. Because of its excellent water solubility and compatibility with other ingredients, it is mainly used in body-cleansing agents and shampoos.

For industrial use, KAO AKYPO RLM-100NV is mainly used as aqueous cleaners, and other applications.

3. Physical/Chemical Properties

KAO AKYPO RLM-100NV has no identified physicochemical hazards.

Property	Value
Physical state	Liquid or petrolatum-like
Color	Colorless to pale yellow
Odor	Characteristic
pH	No data available
Density	1.028 g/mL (10 ℃) (50 °F) 1.024 g/mL (20 ℃) (68 °F)

	1.022 g/mL (40 ℃) (104 °F)
Freezing point	<20 °C (68 °F)
Boiling point	No information available
Flash point	Not applicable
Flammability	No information available
Explosive properties	No information available
Self – ignition temperature	No information available
Vapour pressure	No information available
Water solubility	Very Soluble
Octanol-water partition coefficient(log K_{ow})	No information available
Viscosity	35 mPa.s (10 °C) (50 °F) 20 mPa.s (20 °C) (68 °F) 15 mPa.s (40 °C) (104 °F)

4. Human Health Safety Assessment

Consumer: There is no exposure to hazardous concentration levels of KAO AKYPO RLM-100NV.
Worker: Based on available data, repeated exposure associated with handling operations with KAO AKYPO RLM-100NV does not cause any toxic effects.

Effect Assessment	**Result**
Acute Toxicity oral/ dermal	Based on the available data, no acute toxicity after oral/ dermal exposure in practical use The substance does not cause damage to any organs following single exposure
Irritation skin/ eye	Unlikely to cause skin/eye irritation
Sensitization	Based on the available data, unlikely to cause allergic skin reaction
Toxicity after repeated exposure	Unlikely to cause any toxic effects through prolonged or repeated oral exposure in practical use
Mutagenicity	Based on the available data, unlikely to cause genetic defects
Carcinogenicity	Based on the available data, unlikely to cause cancer
Toxicity for reproduction	Based on the available data, unlikely to be damaging to fertility or the unborn child

5. Environmental Safety Assessment

Based on the available data, KAO AKYPO RLM-100NV suggests not to cause toxicity for aquatic organism. KAO AKYPO RLM-100NV is unlikely to cause bioaccumulation by the food chain, because KAO AKYPO RLM-100NV is not PBT/ vPvB.

Effect Assessment	Result
Aquatic Toxicity	Based on the available data, suggests not to cause toxicity for aquatic organism
Biodegradation	Readily biodegradable
PBT/ vPvB conclusion	Not persistent in the environment, not bioaccumulating in organisms and not toxic nor very persistent and very bioaccumulating

6. Exposure

Consumer

Consumers may come into contact with KAO AKIPO RLM-100NV through the use of products such as body-cleansing agents. However, the potential for harmful effects from KAO AKIPO RLM-100NV in these applications is considered low. When products are used as recommended, consumers should always read the product information and follow the label or instructions.

Worker

The exposure can occur either in KAO AKYPO RLM-100NV manufacturing facilities or in the various industrial facilities when KAO AKYPO RLM-100NV is used. Those workers in industrial operations during maintenance, sampling, testing, or other procedures could be exposed to KAO AKYPO RLM-100NV. Only qualified and trained workers handle the undiluted substance. The manufacturing facilities offer a thorough training program for employees and appropriate work processes, as well as safety equipment (goggles and gloves) in place to prevent an unnecessary exposure. Safety showers and eye-wash stations are accessible nearby. Workers are required to be trained in accordance with the safety measures in the Safety Data Sheet.

Environment

Since KAO AKYPO RLM-100NV is used extensively, it is discharged to wastewater treatment facilities from industrial sites such as manufacturing, preparation, handling, storage and use of the substance as well as from consumer households. However, the substance is readily biodegradable, so it is removed efficiently in wastewater treatment facilities. The substance is biologically degraded in the surface water and is rapidly removed even if trace amounts of the substance remain in wastewater. Hence, the chronic exposure to aquatic organisms of the substance is unlikely to occur. Furthermore, the substance does not accumulate by the food chain, and there is no concern to human health by the exposure of the substance through environmental pathway.

7. Risk management recommendations

Adequate ventilation should be provided when KAO AKYPO RLM-100NV is used in manufacturing facilities or in the various industrial facilities. Always use appropriate chemical-resistant gloves to protect your hands and skin and always wear eye protection equipment. Wash hands and skin after contact with the substance. Do not eat, drink or smoke where the substance is handled, processed or stored. If this substance gets on your

clothing, take off the contaminated clothes. When the substance attaches to skin (or hair), wash with a large amount of water and soap. If it causes skin irritation, seek medical advice/attention. If the substance gets into your eyes, rinse your eyes thoroughly for several minutes. If you wear contact lenses, and can take them off easily, take them off and continue to rinse your eyes. If eye irritation persists, get medical advice/attention.

Waste water containing the substance must be passed through wastewater treatment facilities in order to remove the substance. No specific measures are needed, because it is not expected to be released into the air.

8. Regulatory Information / Classification and Labelling

Under GHS classification chemical substances are classified in hazards for physical properties, human health and environment. The hazard information for industrial products is transmitted via specific labels and Safety Data Sheet. GHS offers the standardization for hazard communication. The subjects who could be assumed to be exposed to the substance, workers, consumers, transport workers, and emergency responders, can better understand the hazards of the chemicals in use through the transmission.

Labeling according to UN GHS

UN GHS is the basis for country specific GHS labeling.

KAO AKYPO RLM-100NV may be assigned to the following GHS classification.

Classification and Labeling Information

KAO AKYPO RLM-100NV is not classified as a substance having harmful effects on human health or the environment.

Hazard Statements:

None

The laws of manufacturing, sale, transport, use and disposal are different among countries or areas. Details are referred to the Safety Data Sheet provided by the supplier.

9. Conclusion

KAO AKYPO RLM-100NV is not considered toxic to aquatic organisms. There is no concern to the environmental organisms due to the rapid biodegradation of KAO AKYPO RLM-100NV. In the PBT/vPvB assessments for KAO AKYPO RLM-100NV, the substance is not PBT/vPvB. When handling the substance, workers should follow the standard safety measures and refer to the Safety Data Sheet. Consumers will usually not come into contact with the substance in bulk, and because it is used in diluted form in consumer products, KAO AKYPO RLM-100NV is considered to have low concern for adverse effects on human health.

10. Contact information within company

For further information on this substance or product safety summaries in general, please contact:

Name	Kao Corporation, Global Chemical Business
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Additional information can be found at a chemical risk assessment support portal provided by the Japan Chemical Industry Associations, found at https://www.jcia-bigdr.jp/jcia-bigdr/en/top.

11. Glossary

Acute Toxicity	Adverse effects that result from a single exposure
Sensitization	Inducibility of allergy
Genotoxicity	Effects to induce gene mutations
Carcinogenicity	Action influence to cause a cancer
Toxicity for Reproduction	Adverse effects for teratogenicity, embryotoxicity, and reproductivity
Biodegradation	Biological degradation of a substance in environments
PBT (Persistent, Bioaccumulative and Toxic)	Substances that are environmentally persistent, bioaccumulative, and toxic
vPvB (Very Persistent and Very Bioaccumulative)	Substances with high persistence in the environment and high accumulation in ecology
GHS	Globally Harmonized System of Classification and Labelling of Chemicals

12. Date of issue

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