Kao Chemicals GmbH

Member of KAO CHEMICALS EUROPE

Enriching lives,
in harmony with nature.

SAFETY DATA SHEET

QUARTAMIN BTC 131

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

1.1 Product identifier

Product name : QUARTAMIN BTC 131
Chemical name : Proprietary mixture.
Product code : 328023 /7.03 /I SDE

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

Identified uses : Detergent. Surfactant
Manufacture of personal care products. Manufacture of soaps and detergents.

1.3 Details of the supplier of the safety data sheet

Supplier : Kao Chemicals GmbH
Kupferstrasse 1
D-46446 EMMERICH - GERMANY
Tel +49 28227110 / Fax +49 2822711209
E-mail: : **psr@kao.es**

1.4 Emergency telephone number - FOR EMERGENCY USE ONLY

For ALL TRANSPORT ACCIDENTS related with USA, call CHEMTREC at 800-424-9300 or 703-527-3887 for international collect calls.

For ALL TRANSPORT ACCIDENTS related with Mexico, call SETIQ at 800-681-9531 or (55) 5575-0838 or (55) 5575-0842

Other countries Emergency telephone number (24h) : **+34 93 739 9445** Multi-language

For any questions or queries not related to emergencies, call the telephone number indicated in the supplier's information.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification
Not classified.

See Section 16 for the full text H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :
Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients :

Supplemental label elements : Safety data sheet available on request.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	CAS no.	%	Classification	Type
2-Methylpentane-2,4-diol	107-41-5	10 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 **See Section 16 for the full text of the H statements declared above.**	[1]

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 or vPvBs 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
[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe No exposure limit value known.	
United States	
Canada	
2-Methylpentane-2,4-diol	**CA Alberta Provincial (Canada, 6/2018). Skin sensitizer.** C: 121 mg/m³ 15 minutes. C: 25 ppm 15 minutes. **CA British Columbia Provincial (Canada, 1/2020).** C: 25 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019).** C: 25 ppm **CA Quebec Provincial (Canada, 7/2019).** STEV: 121 mg/m³ 15 minutes. STEV: 25 ppm 15 minutes. **CA Saskatchewan Provincial (Canada, 7/2013).** CEIL: 25 ppm
Mexico	
2-Methylpentane-2,4-diol	**NOM-010-STPS-2014 (Mexico, 4/2016).** CEIL: 25 ppm
Brazil	
2-Methylpentane-2,4-diol	**ACGIH TLV (United States, 3/2020).** STEL: 10 mg/m³ 15 minutes. Form: Inhalable fraction. Aerosol only. STEL: 50 ppm 15 minutes. Form: Vapor fraction TWA: 25 ppm 8 hours. Form: Vapor fraction
Australia	
2-Methylpentane-2,4-diol	**Safe Work Australia (Australia, 12/2019).** PEAK: 121 mg/m³ 8 hours. PEAK: 25 ppm 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.

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: splash goggles

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): butyl rubber, Viton®, nitrile rubber, neoprene

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall, lab coat

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. Recommended: neoprene

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Remark : The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Solid. [Paste.]

Color : White to yellowish.

Odor : Characteristic.

Odor threshold : Not available.

pH : 3 to 5 (Conc. (% w/w): 1) (20 ºC)

Melting point : 50 ºC

Initial boiling point and boiling range : Not available.

Flash point	:	Closed cup: 93°C Open cup: 100 to 105°C [Cleveland.]
Evaporation rate (butyl acetate = 1)	:	Not available.
Flammability (solid, gas)	:	Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and reducing materials. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts and moisture.
Burning time	:	Not available.
Burning rate	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor density	:	Not available.
Density	:	0,95 g/cm³ [70°C]
Specific gravity	:	0.95
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Decomposition temperature	:	>100°C
Viscosity (Dynamic)	:	Not available.
Explosive properties	:	Slightly explosive in the presence of the following materials or conditions: reducing materials. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture.
Oxidizing properties	:	Not available.

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	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and reducing materials. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts and moisture. Slightly explosive in the presence of the following materials or conditions: reducing materials. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and moisture.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: acids and alkalis. Slightly reactive or incompatible with the following materials: oxidizing materials and reducing materials. Non-reactive or compatible with the following materials: moisture.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Decomposition temperature	:	>100 ºC

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose
Proprietary mixture.	LD50 Dermal LD50 Oral	Rat Rat	9099 mg/kg >2000 mg/kg
2-Methylpentane-2,4-diol	LD50 Dermal LD50 Oral	Rabbit Rat	13000 mg/kg 3700 mg/kg

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Dermal	9099 mg/kg

Irritation/Corrosion

Conclusion/Summary

Skin : Mild irritant

Eyes : Non-irritating to the eyes. On basis of test data

Respiratory : Not available.

Sensitizer

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.

Respiratory : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-Methylpentane-2,4-diol	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary : KAO Data.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : No specific data.

Eye contact : No specific data.

Potential chronic health effects

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Absorption : Not available.
Distribution : Not available.
Metabolism : Not available.
Elimination : Not available.
Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
2-Methylpentane-2,4-diol	Acute EC50 >429 mg/l	Algae	72 hours	OECD 201 Alga, Growth Inhibition Test
	Acute EC50 5410 mg/l	Daphnia	48 hours	202 *Daphnia* sp. Acute Immobilization Test and Reproduction Test
	Acute LC50 8690 mg/l	Fish	96 hours	203 Fish, Acute Toxicity Test
	Chronic NOEC 429 mg/l	Algae	72 hours	OECD 201 Alga, Growth Inhibition Test

Conclusion/Summary : No known significant effects or critical hazards.

12.2 Persistence and degradability

Product/ingredient name	Test	Result
Proprietary mixture. 2-Methylpentane-2,4-diol	Anaerobic Biodegradation (ISO 11734) -	64,7 % - 56 days 81 % - Readily - 28 days

Conclusion/Summary : According to EC criteria: Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Proprietary mixture. 2-Methylpentane-2,4-diol	- -	- -	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
2-Methylpentane-2,4-diol	-0,14	3,16	low

12.4 Mobility in soil

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

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

Other information :

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized 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 : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

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

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	DOT Classification	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	- **ADR/RID Classification Code**	-	-	-

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.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

National Inventory List :

This refers to country inventory status or Kao notifications to specific country inventories. Some countries may have additional importation requirements.

Australia : All components are listed or exempted.

China : All components are listed or exempted.

New Zealand : All components are listed or exempted.

Taiwan : All components are listed or exempted.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

Classification	Justification
Not classified.	

Full text of abbreviated H statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Full text of classifications : Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. 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. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.