

KemEcal 4237

Ref. /US/EN

Revision Date: 04/14/2020

Previous date: 03/16/2020

Print Date:04/14/2020

1. IDENTIFICATION

Product information

Product name
KemEcal 4237

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture

Dispersant for solid substance., Scale control

Recommended restrictions on use

For industrial use only.

Supplier's details

Kemira Chemicals, Inc.
1000 Parkwood Circle, Suite 500
30339 Atlanta USA
Telephone+17704361542, Telefax. +17704363432

HEAD OFFICE
Kemira Oyj
P.O. Box 330
00101 HELSINKI
FINLAND
Telephone +358108611 Telefax +358108621124

Emergency telephone number

CHEMTREC (24 Hours): 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

The product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-Labeling

The material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard's (29CFR 1910.1200) implementation of the Globally Harmonized System (GHS), i.e., material is not a dangerous substance or mixture requiring GHS classification according to the US GHS regulations.

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Hazard(s) not otherwise classified (HNOC) or not covered/classified by GHS

Advice; Spills are very slippery. Repeated or prolonged exposure may cause slight irritation of eyes and skin.

Inhalation; The breathing of vapours may cause: Respiratory irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

Mixture

Chemical nature : Aqueous solution of acrylic copolymers

Not a hazardous substance or mixture according to the local Global Harmonised System (GHS) classification.

Remarks : Not applicable

Further information

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. Get medical attention immediately if symptoms occur.

Inhalation

This product is not known to cause respiratory problems. If breathing is difficult, remove to fresh air and provide oxygen. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention if cough or other symptoms develop.

Skin contact

Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.

Eye contact

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

Ingestion

Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician. Do not induce vomiting without medical advice.

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Most important symptoms and effects, both acute and delayed

Symptoms : No severe effects after a single exposure.

Indication of immediate medical attention and special treatment needed, if necessary

Treatment : All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

No special requirements.

All extinguishing materials are suitable.

Water mist

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

None known.

Special hazards arising from the substance or mixture

This material will not burn until water has evaporated. Thermal decomposition can lead to release of irritating gases and vapours.

Carbon oxides (CO_x), Sulphur oxides (SO_x), Hydrocarbons, ammonia, Smoke

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Use NIOSH/MSHA approved respiratory protection.

Further information

Water in the container will lead to increased pressure and risk of explosion. Cool containers/tanks with water spray. Contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Material can create slippery conditions.

Environmental precautions

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Should not be released into the environment. Avoid runoff into storm sewers and ditches which lead to waterways. Stop the leakage if possible.

Methods and materials for containment and cleaning up

In case of large spillage, contain by damming up. Collect by pump. Take up mechanically and collect into suitable containers for disposal. Must be disposed of in accordance with local and national regulations.

Small amounts: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Uncleaned empty containers must be handled like the product itself, paying attention to the same warnings. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container. Keep tightly closed. Avoid freezing.

Store in a place accessible by authorized persons only. Ensure adequate ventilation.

Materials to avoid:

Strong oxidizing agents, Strong bases

Storage stability:

Other data Recommended storage temperature

Storage temperature 40 - 100 °F

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Industrial Hygiene

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Respiratory protection

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

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Hand protection

Glove material: Impervious gloves

Skin and body protection

Ensure that eyewash stations and safety showers are close to the workstation location. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Eye protection

Tightly fitting safety goggles or safety glasses with side-shields.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid
Colour	Clear colorless to light yellow
Odour	mild
Odour Threshold pH	not determined ca. 6.5 - 8.5
Freezing point/Melting point :	32 °F
Initial boiling point and boiling range	Boiling point/boiling range ca. 212 °F
Flash point	> 212 °F
Evaporation rate	< 1 (n-butyl acetate = 1), similar to water
Flammability (solid, gas)	No data available
Explosive properties:	
Lower explosion limit	Not explosive
Upper explosion limit	Not explosive
Vapour pressure	< 23 hPa Like water
Relative vapour density	Like water

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Density	ca. 11 lb/gal (25 °C) ca. 1.32 g/cm ³ (25 °C)
Relative density	ca. 1.32(25 °C,)
Solubility(ies):	
Water solubility	completely soluble
Solubility in other solvents	practically insoluble, common organic solvents
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	No data available
Decomposition temperature	Not applicable, (water evaporates)
Viscosity:	
Viscosity, dynamic	100 - 500 cP (77 °F)
Viscosity, kinematic	No data available
Surface tension	not determined

10. STABILITY AND REACTIVITY

Reactivity

Stable at normal ambient temperature and pressure.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Avoid extreme temperatures.

Incompatible materials

Strong oxidizing agents
Strong bases

Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:
Carbon oxides (COx)
Sulphur oxides (SOx)
Hydrocarbons
ammonia

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Smoke

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity	LD50/Rat/>/2,000 mg/kg Remarks: similar product
Skin corrosion/irritation	RabbitResult: No skin irritation Remarks: similar product Conclusion: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious eye damage/eye irritation	Conclusion: Repeated or prolonged exposure may cause:, Mild skin irritation Rabbit Result: No eye irritation Remarks: similar product Conclusion: EU classification:, Not classified as irritating for eyes., Repeated or prolonged contact with eyes may cause irritation.
Respiratory or skin sensitisation	
Respiratory sensitization	Conclusion: Prolonged or repeated exposure;, May cause irritation.
Skin sensitisation	Remarks: No data available
Germ cell mutagenicity	
Genotoxicity in vitro	Remarks: No data available Conclusion: No known effect.
Carcinogenicity	
Carcinogenicity	No evidence of carcinogenic effects by polymer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Remarks: Similar product:

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LC50/96 h/Branchydanio rerio (zebra fish): > 100 mg/l

EC50/48 h/Daphnia (water flea): > 100 mg/l

EC50/48 h/Daphnia (water flea): > 100 mg/l

Toxicity to other organisms

Remarks: No data available

Persistence and degradability

Biological degradability:

biological elimination: < 10 %

Remarks: Evaluated from the components.

Chemical Oxygen Demand (COD): 1,250 mg/g

Bioaccumulative potential

Partition coefficient: n-octanol/water: not determined

Mobility in soil

Vapour pressure: < 23 hPa (25 °C)

Water solubility: completely soluble

Surface tension: not determined

Adsorption and/or desorption: Strong adsorption to inorganic substances (e.g. clay ground, fine sand) and to leached organic carbon (e.g. humic acid of nature) restricts migration.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Product Must be disposed of in accordance with local and national regulations.

Contaminated packaging Must be disposed of in accordance with local and national regulations.
Rinse package before disposal.

14. TRANSPORT INFORMATION

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Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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

SARA Title III Section 311 Categories

The product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)., ,

SARA 302 Extremely Hazardous Substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Chemical name	CAS-No.	Concentration[%]
None Present		

SARA 313 - Specific Toxic Chemical Listings

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
None Present ()

US. CERCLA - Comprehensive Environmental Response, Compensation and Liability Act List

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
None Present ()

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to

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www.P65Warnings.ca.gov.
 Acrylamide (79-06-1) < 100 PPM
 Acrylonitrile (107-13-1) < 25 PPM
 acetaldehyde (75-07-0) < 8 PPM
 hydrogen cyanide (74-90-8) < 1 PPM

Other regulations : No restrictions identified other than those already covered in regulations.

Notification status

- USA : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- Australia : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).
- Canada : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
- China : All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
- European Union : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
- Japan : All components of this product are NOT included on the Japanese (ENCS) inventory.
- South Korea : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- New Zealand : All components of this product are included on the New Zealand Inventory of Chemical Substances.
- Philippines : All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
- Taiwan : All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

16. OTHER INFORMATION

HMIS Rating

Health: 1
 Flammability: 1
 Reactivity: 0

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NFPA Rating

Health: 1

Fire: 1

Reactivity: 0

Training advice

Read the safety data sheet before using the product.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This Safety Data Sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200), an adoption of the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Revision 3 by Kemira.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Supplier's safety data sheet.

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