

Product: **Koydamin AC-NPK 001 / 002 / 003 / 004 / 005 / 006 / 007 / 008 / 009 / 010 / 011 / 012 / 013 / 014 / 015 / 016 / 017 / 018 / 019 / 020**

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SDS No.: 1904-001

Version 1.0

Date: 24.04.2019

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

Generic Safety Data Sheet

1.1. Identification of the product

Identification of the mixture: Koydamin AC-NPK 001 / 002 / 003 / 004 / 005 / 006 / 007 / 008 / 009 / 010 / 011 / 012 / 013 / 014 / 015 / 016 / 017 / 018 / 019 / 020

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

Use of the Substance/Mixture: Anticaking agent for mineral based fertilisers.

1.3. Details of the supplier of the safety data sheet

Supplier: KOYDA NOVA
9, Fominykh Lane
Dzerzhinsk, 222720 Republic of Belarus
Telephone: +375171669705
E-mail address: info@koydanova.com
<https://koydanova.com/>

1.4. Emergency telephone number

+3751716 69705
European emergency phone number: 112

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Skin irritation, 2, H315
Serious eye damage, 1, H318
Specific target organ toxicity - repeated exposure 2, H373
Acute aquatic toxicity, 1, H400
Chronic aquatic toxicity, 1, H410

Classification according to EU Directives 1999/45/EC:

Xn; R48/22
Xi; R41
N; R50/53

Additional information:

For the full text of the R, H, EUH-phrases mentioned in this Section, see Section 16.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

Hazardous components which must be listed on the label:

Amines, hydrogenated tallow alkyl

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H373 : May cause damage to organs through prolonged or repeated exposure.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P273 : Avoid release to the environment.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302 + P350 : IF ON SKIN: Gently wash with plenty of soap and water.

P304 + P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 : Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

Physical and chemical hazards:

No special risks of flammability or explosion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture¹:

Preparation based on fatty amines derivatives.

Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :

Chemical name ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification REGULATION (EC) No. 1272/2008
Alkylamines (01-2119473799-15)	292-550-5	90640-32-7	<= 20 %	Xn; R48/22-R65 Xi; R38-R41 N; R50-R53	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 10 M-Factor Chronic = 10
Amines, hydrogenated tallow alkyl, stearates (01-2119981718-20)	800-984-9	142854735-6	<= 20 %	Xn; R48/22 Xi; R41 N; R50/53	Eye Dam. 1; H318 STOT RE 2 (Oral); H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 10 M-Factor Chronic = 1

1 : See chapter 14 for Proper Shipping Name.

2 : See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.

4. FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

General advice:

Take off immediately all contaminated clothing. Wash contaminated clothing before re-use. On contact with hot product: Shower immediately, rapidly taking off all contaminated clothing whilst under the shower, washing abundantly and thoroughly with water.

Inhalation:

Move to fresh air. Oxygen or artificial respiration if needed. Keep under medical surveillance. In case of persistent problems : Hospitalise.

Skin contact:

Wash off immediately with soap and plenty of water. Burns caused by molten material require hospital treatment.

Eye contact:

Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.

Ingestion:

Do NOT induce vomiting. Consult a physician.

4.2. Most important symptoms/effects, acute and delayed: No data available.

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

Treatment: Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, dry powder extinguishers., Use suitable means to extinguish neighbouring fires.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture

Formation of toxic products through combustion: nitrogen oxides, Carbon oxides.

5.3. Advice for firefighters

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool closed containers exposed to fire with water spray.

Special protective actions for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedure

Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. Evacuate area of all unnecessary personnel.

6.2. Environmental precautions

Do not release into the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up:

Keep in suitable, closed containers for disposal.

Recovery:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up to prevent slipping hazard.

Elimination:

Dispose of in accordance with local regulations.

6.4. Reference to other sections: None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Technical measures/Precautions:

Provide water supplies and ocular fountains near the point of use. Provide a catch-tank in a bunded area.

Safe handling advice:

Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures:

See heading 4.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Provide impermeable floor.

Packaging material:

Recommended: Stainless steel, Steel drum.
To be avoided: Aluminium and copper alloys.

7.3. Specific end use(s): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limit Values: Not relevant.

Derived No Effect Level (DNEL): No data available.

Predicted No Effect Concentration: No data available.

8.2. Exposure controls

Appropriate engineering controls: Provide appropriate exhaust ventilation at machinery.

Personal protective equipment:

Respiratory protection: Wear a respirator if necessary. In case of spillage, wear a mask
Recommended Filter type: Filter type AK Avoid breathing dust or vapour., In the case of vapour formation use a respirator with an approved filter.

Hand protection: If splashes are likely to occur, wear: Heat insulating gloves Wear impermeable insulated gloves when handling hot. Protective gloves complying with EN 374. Request information on glove permeation properties from the glove supplier. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye/face protection: Face-shield, or, Safety glasses with side-shields conforming to EN166, Eye wash bottle with pure water.

Skin and body protection: Protective suit.

Environmental exposure controls: See chapter 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	
Physical state (20°C)	Solid
Odour:	No data available
Olfactory threshold:	No data available
pH:	Not applicable
Drop point:	45-75 °C depending on grade
Boiling point/boiling range:	No data available
Flash point:	>150 °C
Evaporation rate:	No data available
Flammability (solid, gas):	
Flammability	Not relevant
Vapour pressure:	No data available
Vapour density:	No data available
Density:	800-920 kg/m ³ , at 80 °C depending on grade
Water solubility:	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	
Explosivity:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

9.2. Other data: None.

10. STABILITY AND REACTIVITY

10.1. Reactivity: No data available

10.2. Chemical stability: No data available

10.3. Possibility of hazardous reactions: No data available

10.4. Conditions to avoid: No data available

10.5. Incompatible materials to avoid:

Powerful oxidants, strong acids and organohalogenated compounds.

10.6. Hazardous decomposition products:

Possible formation of carbon oxides, nitrogen oxides and hazardous organic compounds.

11. TOXICOLOGICAL INFORMATION

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on toxicological effects

Acute toxicity

Inhalation: According to its composition : Slightly harmful by inhalation.

Ingestion: According to its composition : Slightly harmful by ingestion.

Dermal: According to its composition : Slightly harmful in contact with skin.

Local effects (Corrosion / Irritation / Serious eye damage)

Skin contact: According to its composition, can be considered as : Non irritating to skin.

Eye contact: According to its composition : Causes serious eye damage.

Respiratory or skin sensitisation

Inhalation: According to its composition : Not a inhalation sensitizer.

Skin contact: According to its composition : Not a skin sensitizer.

CMR effects

Mutagenicity: Based on the available information, it is not possible to conclude on the hasard potential of this mixture.

Carcinogenicity: Based on the available data, the substance is not suspected of having carcinogenic potential.

Reproductive toxicity:

Fertility: Based on the available data, the substance is not suspected of having reprotoxic potential.

Foetal development: Based on the available data, the substance is not suspected of having developmental toxicity potential.

Specific target organ toxicity

Single exposure:

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

Repeated exposure: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration hazard: Not relevant

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment:

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.1. Acute toxicity

Fish:

AMINES, HYDROGENATED TALLOW ALKYL : LC50, 96 h (Pimephales promelas (fathead minnow)) : 0,06 mg/l (Method: OECD Test Guideline 203).

Aquatic invertebrates:

AMINES, HYDROGENATED TALLOW ALKYL : EC50, 48 h (Daphnia (water flea)) : 0,011 mg/l (Method: OECD Test Guideline 202).

Aquatic plants:

AMINES, HYDROGENATED TALLOW ALKYL : NOEC, 96 h (Algae) : 0,008 mg/l (Method: OECD Test Guideline 201).

ALKYLAMINE DERIVATIVES : EL50, 72 h (Raphidocelis suchbapitata (green algae)) : 0,00177 mg/l (Method: OECD Test Guideline 201).

Aquatic toxicity / Long term toxicity

Aquatic invertebrates:

AMINES, HYDROGENATED TALLOW ALKYL : NOEC, 21 d (Daphnia (water flea)) : 0,013 mg/l (Method: OECD Test Guideline 211, Reproduction inhibition).

ALKYLAMINE DERIVATIVES : NOEC, 21 d (Daphnia (water flea)) : 0,013 mg/l (Method: OECD Test Guideline 211, Reproduction inhibition).

Non aquatic toxicity / Acute toxicity

Toxicity to soil dwelling organisms:

AMINES, HYDROGENATED TALLOW ALKYL : LC50, 14 d (Eisenia fetida (earthworms)) : > 1.000 mg/kg (Soil dw) (Method: OECD Test Guideline 207) NOEC (Eisenia fetida (earthworms)) : 200 mg/kg (Soil dw) (Method: OECD Test Guideline).

ALKYLAMINE DERIVATIVES : LC50, 14 d (Eisenia fetida (earthworms)) : > 1.000 mg/kg (Soil dw) (Method: OECD Test Guideline 207) NOEC (Eisenia fetida (earthworms)) : 200 mg/kg (Soil dw) (Method: OECD Test Guideline).

12.2. Persistence and degradability

Biodegradation (In water):

All the products and/or main components quoted in section 3 and/or analogue substances/metabolites are readily biodegradable.

ALKYLAMINE DERIVATIVES : Readily biodegradable: > 60 % after 28 d (Method: OECD Test Guideline 301 D).

12.3. Bioaccumulative potential

Bioaccumulation:

All the products and/or main components quoted in section 3 and/or analogue substances/metabolites are expected to bioaccumulate.

AMINES, HYDROGENATED TALLOW ALKYL : Bioconcentration factor (BCF): 173

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

12.5. Results of PBT and vPvB assessment: None.

12.6. Other adverse effects:

Global warming potential (GWP): Not relevant (due to the chemical structure).

Ozone depletion potential: Not relevant (due to the chemical structure).

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product: The product should not be allowed to enter drains, water courses or the soil. Incinerate in suitable incineration plant, observing local authority regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Disposal of packaging: Must be dumped or incinerated in accordance with local regulations.

14. TRANSPORT INFORMATION

Regulation	UN number	UN proper shipping name	Class*	Label	PG*	Environmental hazards	Special precautions
ADR	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9	III	yes	
ADN	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9	III	yes	
RID	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9MI	III	yes	
IMDG	3077	Environmentally hazardous substance, solid, n.o.s. (Alkylamines derivatives)	9	9	III	Marine pollutant	EmS Number: F-A, S-F Mark: MP

*Description: Transport hazard class(es)
Packing group

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s).

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

UK REGULATION Chip3: Chemical (Hazard Information and Packaging for Supply) Regulations 2002

15.2. Chemical safety assessment: None.

16. OTHER INFORMATION

Full text of R, H, EUH-phrases referred to under sections 2 and 3

R38	Irritating to skin.
R41, R48/22	Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Bibliography	Related CAS number : 61788-45-2 = 90640-32-7 for inventory purpose Related CAS number : 68551-29-1 = 1428547-35-6 for inventory purpose Related CAS # : 1428547-35-6= 68551-29-1 for inventory purpose
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Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
bw : Body weight
food : oral feed dw : Dry weight
vPvB : very Persistent and very Bioaccumulative
PBT : Persistent, Bioaccumulative and Toxic

This safety data sheet complies with international standard ISO 11014-1. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.