

Satellite, Ahmedabad 380015

Phone: +91-9327399204 GSTIN: 24CKVPG8675C1ZQ

Safety Data Sheet

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

1.1 Product identifiers

Product name : Nitroethane

Product Number : CK004
Brand : ClassyKem
CAS-No. : 79-24-3

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : ClassyKem

F.F.-1 Ishwar Charan complex, opp. Lotus school, Satellite, Ahmedabad, Gujarat 380015.

1.4 Emergency telephone

Emergency Phone # : +91-9327399204

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350 Long-term (chronic) aquatic hazard (Category 3), H412



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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word

Dan

ger Hazard statement(s)

H226 Flammable liquid and vapor. H302 Harmful if swallowed.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P273 Avoid release to the environment.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard

Statements

none

Restricted to professional users.

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word

Dan

ger Hazard statement(s)

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)



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P202 Do not handle until all safety precautions have been read and

understood.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.1 Substances

Component		Classification	Concentration
nitroethane			
CAS-No.	79-24-3	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Aquatic Chronic 3; H226, H302, H331, H412	<= 100%
2-nitropropane		Γ=	
CAS-No.	79-46-9	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Muta. 2; Carc. 1B; Aquatic Chronic 3; H226, H302, H331, H341, H350, H412	>= 1 - < 2.5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call-in physician. If breathing stops: immediately apply artificial respiration, if necessary, also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.



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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Combustible.

Vapors are heavier than air and may spread along floors. Forms

explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material.

Dispose of properly. Clean up affected area



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6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

hygroscopic

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved

Skin protection

required

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.



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Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state clear, liquidb) Color light yellow

c) Odor No data available

d) Melting Melting point/range: -90 °C - lit. 114 - point/freezing point

e) Initial boiling point and boiling range

115 °C - lit.

f) Flammability (solid,

No data available

gas)

g) Upper/lower flammability or explosive limits

Lower explosion limit: 3,4 %(V)

h) Flash point 31 °C - closed cup - Regulation (EC) No. 440/2008, Annex, A.9

i) Autoignition 414 °C temperature at 1.013 hPa

j) Decomposition No data available temperature

k) pH No data available

l) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: 0,64 mPa.s at 25 °C

m) Water solubility 48 g/l at 25 °C

n) Partition coefficient: noctanol/water log Pow: 0,162 at 22,4 °C - Bioaccumulation is not expected.



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o) Vapor pressure

20,8 hPa at 20 °C

p) Density

1,045 g/mL at 25 °C - lit.



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SECTION 10: Stability and reactivity

10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture.

Heating.

10.5 Incompatible materials

Oxidizing agents, Strong reducing agents, Strong acids, Strong bases

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimated Oral - 1.071 mg/kg

(Calculation method)

LD50 Oral - Rat - female - 1.083 mg/kg (nitroethane) (OECD Test

Guideline 401)

Symptoms: Nausea, Vomiting, Diarrhea, Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

Acute toxicity estimate Inhalation - 4 h - 3 mg/l - vapor(Calculation method)

Acute toxicity estimated Inhalation - 11,1 mg/l - vapor (nitroethane)

(Expert judgment)

Symptoms: mucosal irritations, Cough, Shortness of breath Dermal: No

data available

Skin corrosion/irritation Skin -

Rabbit (nitroethane) Result: No skin irritation - 24 h (OECD Test

Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit (nitroethane) Result: No eye irritation Remarks: (ECHA)

Respiratory or skin sensitization Sensitisation test:

- Guinea pig (nitroethane) Result: negative



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Remarks: (ECHA)

Germ cell mutagenicity Test

Type: Ames test (nitroethane)
Test system: S. typhimurium

Metabolic activation: with and without metabolic activation Method:

OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test (nitroethane)

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation Method:

OECD Test Guideline 476

Result: negative (nitroethane)

Test Type: Micronucleus test Species:

Mouse

Cell type: Bone marrow Application Route: Oral

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

Suspected of damaging the unborn child. (nitroethane) Suspected of damaging fertility. (nitroethane)

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available



 $\textbf{Address:}\ \textbf{01-F.F.}\ \textbf{Ishwar Charan complex,}$

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia semi-static test EC50 - Daphnia magna (Water flea) - > 21,9 mg/l - 48 h

and other aquatic (nitroethane)

invertebrates (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 17,4

mg/l - 72 h (nitroethane) (OECD Test Guideline 201)



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Toxicity to bacteria static test EC50 - activated sludge - 310 mg/l - 0,5 h (nitroethane) (OECD

Test Guideline 209)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: 1- nitropropane

Toxicity to daphnia and

other aquatic

invertebrates(Chronic

toxicity)

semi-static test NOEC - Daphnia magna (Water flea) - 2,44 mg/l - 21 d

(nitroethane)

(OECD Test Guideline 211)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 5 d (nitroethane)

Result: 23,9 % - Inherently biodegradable. Remarks:

(ECHA)

Ratio BOD/ThBOD < 0,1 % (nitroethane)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

12.7 Other adverse effects

Discharge into the environment must be avoided.



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SECTION 13: Transport information

13.1 UN number

ADR/RID: 2842 IMDG: 2842 IATA: 2842

13.2 UN proper shipping name

ADR/RID: NITROETHANE IMDG: NITROETHANE IATA: Nitroethane

13.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

13.4 Packaging group

ADR/RID: III IMDG: III IATA: III

13.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

13.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

SECTION 14: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

14.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out