

Trade name:	SKUNK LIQUID / POWDER
-------------	-----------------------

1. Identification of the substance or mixture and of the supplier

1.1 Substance identifier SKUNK LIQUID/ POWDER
Chemical Name: None Known.

1.2 Manufacturer/Importer

Company Name: Odortec Ltd.
Company Address: 5 NESHER STREET, SOREK INDUSTRIAL PARK BET SHEMESH
Company Telephone: 02-9990747
Company Fax: 02-9990747
Company Contact Name: Zion davidyan
Emergency phone number: 052-3954399

1.3 Recommended Uses and Restrictions

Recommended use: Repulsive odour liquid for riot control.
Recommended restrictions: Uses other than as recommended above.

1.4 Utilization: Maximum quantity in possession – no limit expected.

SECTION 2: Hazard(s) identification

2.1 Classification (of the substance or mixture and national or regional information)

This product is not classified as hazardous in accordance with MOI Notification B.E. 2555, Article 1 (2012)

2.2 Label elements (including precautionary statements and hazard symbols):

Pictogram(s): No Pictograms required
Signal word: No signal word.
Hazard statement(s): No hazard statements required
Precautionary statement(s): No precautionary statements required

2.3 Others (hazards which do not result in the GHS classification):

Extremely foul smelling liquid with lingering odour.

3. Composition/information on ingredients

Mixture: Non-flammable, not volatile, non-toxic mix of water, yeasts and sodium bicarbonate.

Chemical name	CAS#	Concentration (weight %)	Safety standard values: TLV	Safety standard values: LD50.
No components classified as health hazards are present above their cut-off/concentration limits.	n/a	n/a	n/a	n/a

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the MOI Notification B.E. 2555, Article 1 (2012)

4. First-aid measures**4.1 Description of first-aid measures by subdividing according to the nature of exposure, including inhalation, skin and eye contact and ingestion:**

By inhalation: If inhaled and adverse effects noticed, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention if adverse health effects occur.

By skin or eye contact: In case of skin contact, wash skin with running water or shower. Wash contaminated clothing and shoes before reuse. Obtain medical attention if adverse health effects occur. If in contact with eyes, rinse with water for at least 15 min. If the pain continues, get medical attention.

By ingestion: If swallowed, give plenty of fluids. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Consult a physician who will decide on need and method for emptying the stomach or any other medical care.

Others: No further information available.

4.2 Important symptoms/effects, both acute and delayed:

At the pH level of sodium bicarbonate the yeasts synthesize to produce amino acids causing heavy odour. May cause skin irritation. May cause redness and pain to eyes. May cause abdominal pain.

4.3 Indication of immediate medical attention and important specific treatment to be performed:

If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

5. Fire-fighting measures

SKUNK LIQUID/ POWDER

5.1 Prohibited extinguishing media and suitable extinguishing media:

Suitable extinguishing media: Not flammable. Use suitable extinguishing media for the surrounding area.

Prohibited extinguishing media: None known.

5.2 Specific hazards arising from the chemical:

Product is not flammable.

Hazardous combustion products include CO (Carbon Monoxide), CO₂ (Carbon Dioxide).

5.3 Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing. Fight fire from a protected location. Wear self-contained breathing apparatus and protective clothing. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

5.4 Others: The product itself is a good fire extinguisher!

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Evacuate danger area. Stay upwind and away from spill/release. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

6.2 Environmental precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

6.3 Methods and materials for containment and cleaning up: Notify relevant authorities in accordance with all applicable regulations.
Small spillages should be allowed to evaporate.
Large spillages should be absorbed on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site.

6.4 Others: No further information.

7. Handling and storage

7.1 Precautions for safe handling:

Do not breathe product. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation. Normal measures for preventive fire protection. Wear appropriate personal protective equipment. Wash exposed skin thoroughly after handling.

SKUNK LIQUID/ POWDER

7.2 Methods for safe storage (Conditions for safe storage, including prohibitions on storage of any incompatible materials):

Do not store in area exposed to sunlight. Keep container tightly closed in a dry, well-ventilated place. Keep away from incompatible materials such as acids (see Section 10) and food / feedstuffs. Protect container(s) against physical damage.

8. Exposure controls and personal protection

8.1 Threshold Limit Values (TLV) (Control parameters for exposure, e.g. occupational exposure limit values, etc., or biological limit values):

Thailand Exposure Limits		
Substance	TWA	STEL
No hazardous components	n/a	n/a

8.2 Appropriate engineering control measures:

Good general ventilation (typically 10 air changes per hour) should be sufficient in most cases. Ventilation rates should be matched to conditions. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Personal protective equipment:

Eye/face protection: For high potential exposure, chemical goggles or full face screen are recommended to prevent eye irritation and pain.
For low or moderate exposure, use safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166.

Skin and Hand protection: Handle with cotton gloves when handling for prolonged or frequent periods of time. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator (if needed).

Thermal Hazards: Not expected to be a thermal hazard.

9. Physical and chemical properties

9.1 Appearance (physical state, colour etc.)

Physical state: Liquid/ Powder

Colour: Opaque

9.2 Odour: Pungent odour.

SKUNK LIQUID/ POWDER

9.3 Odour threshold:	No data available
9.4 pH:	Alkali
9.5 Melting point/freezing point:	-7 °C (freezing point)
9.6 Initial Boiling Point and boiling range:	101.01 °C
9.7 Flash point:	Not applicable
9.8 Evaporation rate:	Not applicable
9.9 Flammability (solid, gas):	Not applicable
9.10 Upper/lower flammability or explosive limits	
Flammability limit – lower %:	Not applicable
Flammability limit – upper %:	Not applicable
Explosive limit – lower %:	Not applicable
Explosive limit – upper %:	Not applicable
9.11 Vapour pressure:	Negligible
9.12 Vapour density (air=1):	Not applicable
9.13 Relative density/ Specific gravity:	No data available
9.14 Solubility(ies):	Soluble
9.15 Partition coefficient (n-octanol/water):	No data available
9.16 Auto-ignition temperature/ Decomposition temperature:	Not applicable
9.17 Molecular mass	84.01 (sodium bicarbonate)
9.18 Viscosity:	No data available
9.19 Others:	Not applicable

10. Stability and reactivity

10.1 (Reactivity) Chemical stability:	Stable under normal ambient and anticipated conditions of use. Does not decompose up to 250°C
10.2 Incompatible materials:	Acids.
10.3 Materials to avoid:	Light metals and strong oxidizing agents.
10.4 Conditions to avoid (e.g., static discharge, shock, or vibration):	None known
Possibility of hazardous reactions:	Hazardous reactions not anticipated.
10.5 Hazardous decomposition products:	None expected.
10.6 Others:	No further information.

11. Toxicological information

11.1 Potential routes of exposure, including inhalation, ingestion, skin and eye contact:	
Inhalation:	Not an expected route of exposure.
Ingestion:	Not an expected route of exposure.
Skin contact:	Expected route of exposure.

SKUNK LIQUID/ POWDER

Eye contact: Expected route of exposure.

Target Organ(s): Eye, skin,

11.2 Symptoms related to physical, chemical and toxicological characteristics:

May cause skin irritation. May cause redness and pain to eyes. May cause abdominal pain.

11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure:

None expected.

11.4 Numerical values of toxicity, e.g. acute toxicity estimates, etc:

Acute toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
No hazardous components	LD ₅₀ Oral (Rat)	No data available
	LD ₅₀ intravenous (Mouse)	No data available
	LC ₅₀ Inhalation Rat)	No data available

Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

Skin corrosion or irritation: May cause skin irritation.

Serious eye damage or irritation: May cause redness and pain to eyes.

Respiratory or skin sensitization: Not expected to cause respiratory or skin sensitization.

Germ cell mutagenicity: Not expected to cause germ cell mutagenicity.

Carcinogenicity: None of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

Reproductive toxicity: Not expected to cause reproductive toxicity.

Specific Target Organ toxicity (STOT) - single exposure: This material is not expected to cause damage to organs from a single exposure.

SKUNK LIQUID/ POWDER

Specific Target Organ toxicity (STOT) - Repeat exposure:

This material is not expected to cause damage to organs from repeated exposure.

Aspiration hazard:

Not expected to be an aspiration hazard at this concentration.

12. Ecological information

12.1 Ecological toxicity:

Product data: Not expected to affect the aquatic environment.

Ingredient Information:

Substance	Test Type	Species	Value
No hazardous components	LC ₅₀	Fish	No data available
	EC ₅₀	Invertebrate	No data available
	EC ₅₀	Algae	No data available

12.2 Persistence

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

12.3 Other effects:

None anticipated.

13. Disposal considerations

Description of waste residues and information on safe handling, including proper disposal methods, and disposal of contaminated packaging:

Product – Not expected to be a hazardous waste. Dispose in accordance with applicable federal, state, and local regulations.

Contaminated packaging - Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

14. Transport Information

SKUNK LIQUID/ POWDER

14.1 UN number: Not regulated as hazardous for transport

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing group, if applicable: Not applicable

14.5 Marine pollutant (present/absent):

Marine pollutant: No

14.6 Transport in bulk (using large containers (according to Annex II in MARPOL 73/78 and IBC Code)): No data available

14.7 Others (Special precautions for users): No data available

15. Regulatory Information

Indication of safety, health and environmental regulations specific for the product:

15.1 Ministry of Labour:

No relevant regulations governing the components of this product

15.2 Ministry of Industry:

No relevant regulations governing the components of this product

15.3 Ministry of Public Health:

No relevant regulations governing the components of this product

15.4 Ministry of Natural Resources and Environment:

No relevant regulations governing the components of this product

15.5 Ministry of Transport:

No relevant regulations governing the components of this product

15.6 Others:

No further information.

16. Other Information

16.1 NFPA symbols:



16.2 Information sources and documents used to provide detailed safety information of hazardous substances:

Legal basis:

- Notification of Ministry of Industry Subject: Hazard classification and communication system for substances B.E. 2555 (2012)
- Notification of the Department of Labor Protection and Welfare, Subject: Template for list of hazardous substances and detailed safety information of hazardous substances B.E. 2556 (2013)
- Notification of Ministry of Industry B.E. 2537, issued under Dangerous Substance Act, B.E. 2535 (1994)
- Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous substances by manufacturers, importers, exporters and person in possession thereof under responsibility of Industrial Work Department B.E. 2547 (2004)
- Hazardous Substance Act B.E. 2535 (1992)
- Hazardous Substance Act (No. 2) B.E. 2544 (2001)
- Hazardous Substance Act (No. 3) B.E. 2551 (2008)

16.3 Others:

Other information including information on preparation and revision of safety data sheets:

The date of preparation of the SDS or the last change to it: Nov 25, 2015

To the best of our knowledge, the information contained herein is accurate. However, Odortec Ltd. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.