

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: Thermo Clean
 Product Number: 0929
 Product Type: Mixture
 Use of mixture: Cleaner

For professional use only.

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

Identified Uses

Cleaner for thermal foggers.

Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

CEBE Reinigungschemie GmbH
 Ruhrstrasse 47
 22761 Hamburg
 Germany

Telephone: +49.40.851 82 -0 Telefax: +49.40.851 82 29 Email: info@cebechem.com
 Responsible/issuing person: Dr. Jan M. Reimers

1.4 Emergency telephone number

Emergency telephone number: +49.40.851 82 -0 (Mo. – Th. 8:00 to 16:45, Fr. 8:00 to 15:30)

2. Hazards identification

2.1 Classification of the substance or mixture

Product definition: mixture



Classification according to Regulation (EU) No. 1272/2008 (CLP)

Hazard class and hazard category	Hazard statements
Flam. Liq. 3	H226
Asp. Tox. 1	H304
Aquatic Chronic 4	H413

See section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Labelling according to Regulation (EU) No. 1272/2008

Hazard symbol(s):	 	
Signal Word:	Danger.	
Hazard Statements:	H226 H304 H413 EUH066	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause long lasting harmful effects to aquatic life. Repeated exposure may cause skin dryness or cracking.
Precautionary Statements:		
Prevention:	P210 P273	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid release to the environment.
Reaction:	P301+P310 P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Do NOT induce vomiting.
Storage:	P405	Store locked up.
Disposal:	P501	Dispose of contents/container to a specialized establishment.

Additional labelling elements: None.

Other Information

Not applicable.

2.3 Other hazards

Other hazards that do not lead to a classification: Not applicable.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous Components	Identifiers	Wt.-%	Classification (EU) 1272/2008
Hydrocarbon mixture, aliphatic, in the range C11-C13	REACH#: 01-21194742146-39-0001 EG: 918-167-1 CAS: 64741-65-7	90 – 100%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066 Aquatic Chronic 4, H413

See section 16 for the full wording of the above mentioned H- statements.

At the time of creation of this data sheet no further ingredients were classified as hazardous to health or environment or were contained in concentrations that did not mandate their mention in this section.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In the absence or irregular breathing, or if respiratory arrest occurs provide artificial respiration by trained personnel or oxygen. For the first person providing aid it can be dangerous to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and seek immediate medical attention. Maintain an open airway. Loosen tight clothing (eg. collar, tie, belt, or waistband).

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention if adverse health effects persist or are severe. Wash clothing before reuse. Thoroughly clean shoes before reuse

Ingestion: Aspiration hazard if swallowed. Can enter the lungs and cause damage. Do not induce vomiting. Get medical attention.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. For the first person providing aid it can be dangerous to give mouth-to-mouth resuscitation.

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: Aspiration hazard if swallowed. Can enter the lungs and cause damage.

Signs / symptoms of overexposure

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: Adverse symptoms may include the following: nausea or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Indications for the physician: Treat symptomatically. If larger amounts have been swallowed or inhaled consult specialist for poisoning.

Special treatment: No special treatment.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry powder, carbon dioxide, spray water (mist), or foam.

Unsuitable extinguishing media: Do not use a strong jet of water.

5.2 Special hazards arising from the substance or mixture

Hazards that originate from the substance or mixture: Incomplete combustion may release carbon monoxide. Product is less dense than water and may resurface and reignite. Fumes are heavier than air and may spread above the ground. Ignition from further distances possible.

Hazardous combustion products: The following combustion products may occur: carbon monoxide, carbon dioxide.

5.3 Advice for fire fighters

Special safety measures for fire fighters: In case of fire the affected area should be closed off immediately and all persons evacuated from the area. No measures should be taken that involve personal risk or have not been trained properly.

Special personal protective measures during fire fighting: Fire fighters must wear special protective equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

For persons that are not emergency technicians: 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. Avoid breathing vapor or mist. Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Put on appropriate personal protective equipment.

For first aid personnel in case of emergency: If protective equipment/clothing is needed in case of accidental release, Section 8 should be consulted for appropriate and inappropriate materials. See section 8 for further information on hygiene measures.

6.2 Environmental precautions

Avoid the proliferation and dispersal of spilled material 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 material for containment and cleaning up

Small amounts: Absorb with inert material and keep in suitable disposal containers.

Large amounts: Large spill: avoid entry into sewers, water courses, basements, or confined areas. Collect spilt material using non-flammable absorption agent (eg. sand, earth, vermiculite or diatomaceous earth) and hand it in for disposal according to local regulations in an appropriate container (see section 13).

6.4 Reference to other sections

See section 1 for contact information in case of emergency. See section 8 for information regarding personal protective equipment. See section 13 for further information about waste treatment/disposal.

7. Handling and storage

The information in this section contains general advice and procedures. The list of identified applications in section 1 should be considered regarding specific uses when creating an exposure scenario.

7.1 Precautions for safe handling

Protective measures: Put on appropriate (see section 8) protective gear. Do not get in contact with eyes, skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative container, which was made from a compatible material. Kept tightly closed when not in use. Empty containers retain product residue and can be dangerous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. After use or contact with the substance immediately wash hands and face especially before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 40°C (32 to 104°F). Store in accordance with local regulations. Keep only in original container. Protect from direct sunlight. Store in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and do not store with food and drink. Hold container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate container to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: No information available.

8. Exposure controls/personal protection

The information in this section contains general advice and procedures. The list of identified applications in section 1 should be considered regarding specific uses when creating an exposure scenario.

8.1 Control parameters

Occupational exposure limit values

Name of substance	Exposure limit value
Hydrocarbon mixture, aliphatic, in the range C11-C13	TRGS 900 (Germany) – WEL 600 mg/m ³ (2(II))

Derived effect concentrations

No Derived No Effect Level (DNEL) values available.

Predicted effect concentrations

No Predicted No Effect Concentrations (PNEC) available.

8.2 Exposure controls

Appropriate technical controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products and at the

end of the working day as well as before eating, smoking, and using the toilet. Use appropriate techniques to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work area.

Eye/Face protection (EN 166): No specific recommendations.

Hand protection (EN 374): No specific recommendations.

Skin protection (EN 14605): Before handling this product the personal protective equipment should be selected on the basis of the task and the associated risks to be carried out and approved by a specialist.

Other skin protection: Appropriate footwear and any additional skin protection measures should be based on the task being performed and the risks involved and approved by a specialist.

Respiratory protection (EN 143, 14387): under normal and intended conditions of product use no respirator is required. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Thermal hazards: Not applicable.

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) **Appearance:** **Form:** liquid **Color:** colorless
- b) **Odor:** paraffin-like
- c) **Odor threshold:** Not applicable and/or not determined for this mixture
- d) **pH:** Not applicable
- e) **Freezing/melting point:** Not applicable and/or not determined for this mixture
- f) **Boiling point/boiling range:** Not applicable and/or not determined for this mixture
- g) **Flash point:** approx. 60°C
- h) **Evaporation rate:** Not applicable and/or not determined for this mixture
- i) **Flammability (solid, gas):** Not applicable and/or not determined for this mixture
- j) **Upper/lower explosion limit:** Not applicable and/or not determined for this mixture
- k) **Vapor pressure:** Not applicable and/or not determined for this mixture
- l) **Relative vapor density:** Not applicable and/or not determined for this mixture
- m) **Density:** 0.750 – 0.770 g/cm³
- n) **Solubility** easily soluble in the following substances: hydrocarbon solvents
- o) **partition coefficient:** n-octanol/water: Not applicable and/or not determined for this mixture

- p) **Ignition temperature:** Not applicable and/or not determined for this mixture
- q) **Thermal decomposition:** Not applicable and/or not determined for this mixture
- r) **Viscosity, dynamic:** Not applicable and/or not determined for this mixture
- s) **Explosive properties:** Not applicable and/or not determined for this mixture
- t) **Oxidizing properties:** Not applicable and/or not determined for this mixture

9.2 Other information

No further information available.

10. Stability and reactivity

10.1 Reactivity

No specific data for this product or its ingredients are available.

10.2 Chemical stability

This product is stable.

10.3 Possibility of hazardous reactions

Under normal storage conditions and normal use no hazardous reactions will take place.

10.4 Conditions to avoid

No specific data available.

10.5 Incompatible materials

No specific data available.

10.6 Hazardous decomposition products

Under normal storage conditions and normal use no hazardous decomposition products will be formed.

11. Toxicological information

11.1 Information on toxicological effects

a) acute toxicity:

Name of Substance	Result	Species	Dose	Exposition
Hydrocarbon mixture, aliphatic, in the range C11-C13	LD ₅₀ Oral	Rat	>5,000 mg/kg	-
	LD ₅₀ Dermal	Rabbit	>5,000 mg/kg	-
	LC ₅₀ Inhalative	Rat	greater than almost saturated vapor pressure	4 hours

Conclusion/Summary: Not determined for this mixture.

b) Irritation to skin; c) Irritation to eyes; d) Sensitisation

Name of Substance	Result	Species	Points	Exposition	Observation
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Thermo Clean



Hydrocarbon mixture, aliphatic, in the range C11-C13	Skin: mild irritation Eyes: non-irritant Sensitization: not sensitizing	-	-	-	-
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Conclusion/Summary: Repeated exposure may cause skin dryness or cracking.

e) Germ cell mutagenicity:

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

f) carcinogenicity:

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

g) reproductive toxicity:

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

h) Specific target organ toxicity single exposure

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

i) Specific target organ toxicity after repeated exposure

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

j) Aspiration hazard

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

Teratogenicity

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

Information on the likely routes of exposure: No known significant effects or critical hazards.

Potential acute health effects

Inhalation: No known significant effects or critical hazards.

Ingestion: Aspiration hazard if swallowed. Can enter the lungs and cause damage.

Skin contact: Acts as a degreaser. May cause skin dryness and irritation of the skin.

Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.

Ingestion: Adverse symptoms may include the following: nausea or vomiting

Skin contact: Adverse symptoms may include the following: irritation dryness cracking

Eye contact: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not determined for the mixture.

Potential delayed effects: Not determined for the mixture.

Long-term exposure

Potential immediate effects: Not determined for the mixture.

Potential delayed effects: Not determined for the mixture.

Potential chronic health effects

Conclusion / Summary: Not determined for the mixture.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and / or dermatitis.
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.

Further information: Not determined for this mixture.

12. Ecological information

12.1 Toxicity

Name of substance	Result	Species	Exposition
Hydrocarbon mixture, aliphatic, in the range C11-C13	LL ₅₀ >100 mg/l	Fish	-
	LL ₅₀ >100 mg/l	Daphnia	-
	LL ₅₀ >100 mg/l	Algae	-
	LL ₅₀ >100 mg/l	Microorganisms	-
	NOEC >0.1-<=1,0 mg/l	Fish	-
	NOEC >0.1-<=1,0 mg/l	Daphnia	-

Conclusion/Summary: Not determined for this mixture.

12.2 Persistence and degradability

Conclusion/Summary: Not determined for this mixture.

12.3 Bioaccumulative potential

Conclusion/Summary: Not determined for this mixture.

12.4 Mobility in soil

Partition coefficient ground/water (K_{oc}): Not determined for this mixture.

Mobility: Not determined for this mixture.

12.5 Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

12.6 Other adverse effects

No special effects or hazards known.

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any exposure scenario or when exposure scenarios on the available application-specific information.

Waste disposal according to EC Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in collaboration with the waste disposal authorities.

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Material and its container must be disposed of in a safe way. Significant quantities of waste product residue should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the environmental protection requirements and waste disposal legislation and the requirements of local authorities. Avoid the proliferation and dispersal of spilled material and contact with soil, waterways, drains and sewers.

Hazardous waste: According to the information available to the supplier at the time of creation/editing of this safety data sheet this product is regulated as hazardous waste in the sense of EU regulation 2008/98/EC.

Packaging

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled.

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 the proliferation and dispersal of spilled material and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADR/ADNR	IMDG	IATA
14.1 UN Number	1268	1268	1268	1268
14.2 UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	None.	None.	None.	None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Multiplier according to ADR / RID 1.1.6.3: 1

Tunnel restriction code: D/E

15. Regulatory information

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

EC-Regulation Nr. 1907/2006 (REACH)

Appendix XIV - Index of substances that require permission

Substances causing special concern: None of the ingredients is listed.

Appendix XVII – Restriction of the production, the distribution, and the use of specific hazardous substances, mixtures, and products: Not applicable.

Other EU-Regulations

Contents according to 648/2004 EC:

≥30% aliphatic hydrocarbons.

15.2 Chemical safety assessment

This product contains substances that still require substance assessments.

16. Other information

➤ Marks the information that was changed since the last version.

Abbreviations and acronyms:

ADN/ADNR = European agreement for the international transport of hazardous materials on inland waterways

ADR = European agreement for the international transport of hazardous materials on roads

ATE = Estimation acute toxicity

BCF = Bio concentration factor

CLP = Regulation concerning the classification, labeling, and packaging Verordnung über die Einstufung, Kennzeichnung und Verpackung [Regulation (EC) No. 1272/2008]

CAS = Chemical Abstracts Services Number

DNEL = Derived Non-Effect Level

DPD = Mixture regulation [1999/45/EG]

EC = European Commission

EG = EG-Nummer

EUH-Satz = CLP-specific hazard phrase

IATA = International Aviation Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods Code

LogPow = Logarithm base-10 of the n-octanol:water partition coefficient

MARPOL 73/78 = International agreement from 1973 for the prevention of marine pollution caused by ships in the version of the protocol from 1978. ("Marpol" = marine pollution)

MAK = maximum workplace concentration

PBT = Persistent, bioaccumulating, and toxic

PNEC = Predicted No-Effect Concentration

REACH = Regulation concerning the Registration, Evaluation, Approval and Restriction of Chemical Substances [Regulation (EC) No. 1907/2006]

RID = Regulation for the transport of hazardous goods by railway

REACH # = REACH Registration number

vPvB = very persistent and very bioaccumulating

Full text of the abbreviated H-phrases:

EUH066 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H413 May be harmful to aquatic life with long lasting effects

Full text of the classifications [CLP/GHS]

Aquatic Chronic 4 = aquatic environment - Category 4

Asp Tox 1 = ASPIRATION - Category 1

Thermo Clean



Flam. Liq. 3 = FLAMMABLE LIQUIDS - Category 3

Manufacturer of protective gloves:

KCL GmbH
Industriepark Rhön
Am Kreuzacker 9
36124 Eichenzell
Germany
Tel. +49(0)659.87-0
www.kcl.de

The information above is based on the information and experienced of the date of issue. They do not have any type of characteristic assurance. They may not be changed or transposed to other products.

Always read and follow the instructions on the label.