



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: LogoClean Spray

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

Identified uses: Solvent-based cleaner

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier Logopak Systeme GmbH & Co. KG
Dorfstr. 40
24628 Hartenholm

Telephone: +49 (0)4195 / 99750
Fax: +49 (0)4195 / 1265

Contact Person:
E-mail: info@logopak.de

1.4 Emergency telephone number: +49 (0)6131 / 19240 (Giftinformationszentrum Mainz)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Flammable aerosol	Category 1	H222: Extremely flammable aerosol. H229: Pressurized container: May burst if heated.
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Health Hazards

Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure	Category 3	H336: May cause drowsiness or dizziness.
Aspiration Hazard	Category 1	H304: May be fatal if swallowed and enters airways.

Hazard summary

Physical Hazards: Flammable aerosol.



Product name: LogoClean Spray

Health Hazards

Ingestion: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

2.2 Label Elements

Contains: Isopropyl alcohol
Hydrocarbons, low viscous



Signal Words: Danger

Hazard Statement(s): H222: Extremely flammable aerosol.
H229: Pressurized container: May burst if heated.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statement

General information: P102: Keep out of reach of children.

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331: Do NOT induce vomiting.

Storage: P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental label information

EUH066: Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients



Product name: LogoClean Spray

3.2 Mixtures

General information: Mixture of components with propellant in aerosol can.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Ethyl alcohol	EINECS: 200-578-6	20,00 - <50,00%	01-2119457610-43	
Hydrocarbons, low viscous	EINECS: 265-150-3	10,00 - <25,00%	01-2119457273-39	
Isopropyl alcohol	EINECS: 200-661-7	10,00 - <20,00%	01-2119457558-25	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Ethyl alcohol	EINECS: 200-578-6	CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319
Hydrocarbons, low viscous	EINECS: 265-150-3	CLP: Asp. Tox. 1;H304, Flam. Liq. 3;H226, Aquatic Chronic 3;H412
Isopropyl alcohol	EINECS: 200-661-7	CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: Causes serious eye irritation. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Dizziness
Freeze burns

4.3 Indication of any immediate medical attention and special treatment needed Get medical attention if symptoms occur.

SECTION 5: Firefighting measures



Product name: LogoClean Spray

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture: Danger of explosion with aerosol cans.

5.3 Advice for firefighters

Special fire fighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Keep away from sources of ignition - No smoking.

6.2 Environmental Precautions: Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.



Product name: LogoClean Spray

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with flame and heat source, prevent contact with direct sunlight Use only in well-ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Local regulations concerning handling and storage of waterpolluting products have to be followed. Local regulations for the storage and handling of aerosol cans and flammable liquids have to be kept. Keep away from heat/sparks/hot surfaces. - No smoking.

7.3 Specific end use(s):

not applicable

Storage Class:

2 B, Aerosols

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Ethyl alcohol	AGW	500 ppm 960 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (01 2012)
Hydrocarbons, low viscous	MAK	50 ppm 300 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Butane	AGW	1.000 ppm 2.400 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (01 2012)
Isopropyl alcohol	AGW	200 ppm 500 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (01 2012)
Propane	AGW	1.000 ppm 1.800 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (01 2012)

Biological Limit Values

Chemical name	Exposure Limit Values	Source
Isopropyl alcohol (acetone: Sampling time: End of shift.)	25 mg/l (Blood)	DE BAT (09 2013)
Isopropyl alcohol (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	DE BAT (09 2013)

8.2 Exposure controls



Product name: LogoClean Spray

Appropriate engineering controls: Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection
Hand Protection: Material: Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	Aerosols
Form:	Aerosols
Color:	Colorless
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	78 °C
Flash Point:	< -60 °C (DIN EN ISO 2719)



Product name: LogoClean Spray

Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)-:	Not applicable for mixtures
Flammability Limit - Lower (%)-:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,77 g/cm ³ (15 °C) (DIN 51757)
Solubility(ies)	
Solubility in Water:	partly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	
Minimum ignition temperature:	> 300 °C (DIN 51794)

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	Causes eye irritation.



Product name: LogoClean Spray

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	LD 50 (Rat): > 15.000 mg/kg
Isopropyl alcohol	LD 50 (Rat): 4.570 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	LD 50 (Rabbit): > 3.160 mg/kg
Isopropyl alcohol	LD 50 (Rabbit): 13.400 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	LC 50 (Rat, 4 h): 30 mg/l

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Serious Eye Damage/Eye Irritation:

Product:

No data available.



Product name: LogoClean Spray

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

In vivo

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.



Product name: LogoClean Spray

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	LC 50 (Fish, 96 h): > 1.000 mg/l
Isopropyl alcohol	LC 50 (Fish, 96 h): 9.640 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	EC 50 (Water Flea, 48 h): > 1.000 mg/l
Isopropyl alcohol	No data available.



Product name: LogoClean Spray

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Ethyl alcohol No data available.
Hydrocarbons, low viscous No data available.
Isopropyl alcohol No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Ethyl alcohol No data available.
Hydrocarbons, low viscous No data available.
Isopropyl alcohol No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Ethyl alcohol No data available.
Hydrocarbons, low viscous EC 50 (Alga): > 1.000 mg/l
Isopropyl alcohol No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Ethyl alcohol No data available.
Hydrocarbons, low viscous No data available.
Isopropyl alcohol No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Ethyl alcohol No data available.
Hydrocarbons, low viscous No data available.
Isopropyl alcohol No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments



Product name: LogoClean Spray

Ethyl alcohol	No data available.
Hydrocarbons, low viscous	No data available.
Isopropyl alcohol	No data available.

12.5 Results of PBT and vPvB assessment: The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other Adverse Effects: No data available.

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

European Waste Codes

16 05 04*: Gases in pressure containers (including halons) containing dangerous substances.

SECTION 14: Transport information

ADR/RID

14.1 UN Number:	UN 1950
14.2 UN Proper Shipping Name:	AEROSOLS
14.3 Transport Hazard Class(es)	
Class:	2
Label(s):	2.1
Hazard No. (ADR):	–
Tunnel restriction code:	(D)
14.4 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

ADN

14.1 UN Number:	UN 1950
14.2 UN Proper Shipping Name:	AEROSOLS
14.3 Transport Hazard Class(es)	
Class:	2
Label(s):	2.1
14.3 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–



Product name: LogoClean Spray

IMDG

14.1 UN Number:	UN 1950
14.2 UN Proper Shipping Name:	AEROSOLS
14.3 Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1
EmS No.:	F-D, S-U
14.3 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

IATA

14.1 UN Number:	UN 1950
14.2 Proper Shipping Name:	Aerosols, flammable
14.3 Transport Hazard Class(es):	
Class:	2.1
Label(s):	2.1
14.4 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

National Regulations

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.



Product name: LogoClean Spray

Wording of the H-statements in section 2 and 3

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H229	Pressurized container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Other information:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date:

16.02.2016

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.