Material Safety Data Sheet

SDS date: 08-06-2018 **SDS version: 1.0**

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

1.1. Product Identifier

Trade Name: Sterling Spectacle Cleaner Spray
Product- no.: 2525

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

Recommended uses: Provides clean, glossy and anti-static eyeglasses.

Uses advised against: This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Company and address
Sterling Polish Company A/S
Nybrovej 95
DK-2820 Gentofte
Tlf.: +45 45 87 70 44

Contact person and E-mail:
Hans Rasmussen, hgr@sterlingpolish.dk

The Safety data sheet is completed and validated by:
mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: DH

1.4. Emergency telephone number

NHS: 111
Use your national or local emergency number - See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008): Flam Liq. 3;H226.
See full text of H-phrases in section 16.

2.2. Label elements

Signal word:
Warning

Flammable liquid and vapour. (H226)

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Dispose of contents/container in accordance with local regulation. (P501)

2.3. Other hazards

The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs fx. liver and kidney.

Additional labelling:

-

Additional warnings:

-

SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	EU-Index no.	Cas / EINECS no.	CLP-classification	w/w%	Note
Ethanol	603-002-00-5	64-17-5/ 200-578-6	Flam. Liq. 2;H225	10-30	1
Propan-2-ol	603-117-00-0	67-63-0/ 200-661-7	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336	1-5	1

1 = The substance is an organic solvent.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Keep victim under observation. Seek medical advice in case of discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Remove contact lenses. Seek medical advice if symptoms persist.

Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

Additional information: When obtaining medical advice, show the safety data sheet or label. Symptoms: See section 11.

4.2. Most important symptoms and effects, both acute and delayed
Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.
4.3. Indication of any immediate medical attention and special treatment needed
When obtaining medical advice, show the safety data sheet or label.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Extinguish with powder, foam or carbon dioxide. Do not use water stream, as it may spread the fire.
5.2. Special hazards arising from the substance or mixture
Flammable liquid and vapour. Avoid inhalation of vapour and fumes – seek fresh air. Product decomposes in fire conditions and toxic gases such as CO_X may be released. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Use water to cool containers exposed to fire.
5.3. Advice for firefighters
Send contaminated extinguishing water for destruction.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See section 8 for type of protective equipment. Deployment personnel: normal protective clothing equivalent to EN 469 is recommended. Take precautionary measures against static discharges. Avoid breathing.
6.2. Environmental precautions
Avoid unnecessary release to the environment - See section 12. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.
6.3. Methods and material for containment and cleaning up
Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. Rinse with water. See section 13 for instructions on disposal.
6.4. Reference to other sections
See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
See section 8 for information about precautions for use and personal protective equipment. Smoking and naked flames prohibited. Use the product under well-ventilated conditions. Running water and eye wash equipment should be available.
7.2. Conditions for safe storage, including any incompatibilities
The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging.
Store fireproof. Storage for flammable liquids must follow local regulations for flammable stock.
7.3. Specific end use(s)
See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Second edition, 2011):

Substance	Long-term exposure limit	Short-term exposure limit	Note
Ethanol	1000 ppm - 1920 mg/m³	-	-
Propan-2-ol	400 ppm - 999 mg/m³	500 ppm - 1250 mg/m³	-

DNEL and PNEC values:

DNEL - Ethanol:

Workers

Inhalation - Chronic Systemic	950 mg/m³
Dermal - Chronic Systemic	343 mg/kg bw/day

Consumers

Inhalation - Chronic Systemic	114 mg/m³
Dermal - Chronic Systemic	206 mg/kg bw/day
Oral - Chronic Systemic	87 mg/kg bw/day

DNEL – Propan-2-ol:

Workers

Inhalation - Chronic Systemic	500 mg/m³
Dermal - Chronic Systemic	888 mg/kg bw/day

Consumers

Inhalation - Chronic Systemic	89 mg/m³
Dermal - Chronic Systemic	319 mg/kg bw/day
Oral - Chronic Systemic	26 mg/kg bw/day

PNEC - Ethanol:

Fresh water	0.96 mg/L
Intermittent releases (Fresh water)	2.75 mg/L
Marine water	0.79 mg/L
Soil	0.63 mg/kg soil dw

PNEC - Propan-2-ol:

Fresh water	140.9 mg/L
Intermittent releases (Fresh water)	140.9 mg/L
Marine water	140.9 mg/L
Soil	28 mg/kg soil dw

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

Wear the personal protective equipment specified below. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke when using this product.

Personal protective equipment:

Respiratory protection:	In case of insufficient ventilation, wear respiratory protective equipment with filter A (EN 136/140/145).
Hand protection:	Generally not required. Plastic or rubber gloves recommended (EN 374).
Eye/face protection:	Not required.
Skin protection:	Not required.

Environmental exposure controls:

Make sure that when using the product damming material is available in immediate vicinity. If possible use spillage tray during work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Odour:	-
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	Ca. 30
Evaporation rate:	-
Flammability (solid, gas)	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure (mbar, 25 °C):	-
Vapour density (air=1)	-
Relative density:	-
Solubility(ies)	Soluble with water
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity (mm^2/sek):	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

Content of solids (%):	-
Surface tension (mN/m, 25 °C):	-

SECTION 10: Stability and reactivity

10.1. Reactivity
No data.
10.2. Chemical stability
The product is stable when used in accordance with the supplier's directions. Combustible at temperatures above the flash point.
10.3. Possibility of hazardous reactions
Vapours may form explosive mixtures with air.
10.4. Conditions to avoid
Avoid heating and contact with ignition sources.
10.5. Incompatible materials
None known.
10.6. Hazardous decomposition products
Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as CO_X may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Based on the existing data, the classification is not met.

Substance	Route of exposure	Species	Test	Result
Ethanol	Oral	Rat	LD50	10470 mg/kg bw
Ethanol	Inhalation	Rat	LC50 / 4 hours	116.9 mg/L air
Propan-2-ol	Oral	Rat	LD50	5,84 g/kg bw
Propan-2-ol	Inhalation	Rat	LC50 / 6 hours	ca. 5000 ppm
Propan-2-ol	Dermal	Rabbit	LD50	16.4 mL/kg bw

Skin corrosion/irritation: May irritate the skin – may cause reddening.

Serious eye damage/irritation: May cause eye irritation.

Respiratory or skin sensitisation: Based on the existing data, the classification is not met.

Germ cell mutagenicity: Based on the existing data, the classification is not met.

Carcinogenicity: Based on the existing data, the classification is not met.

Reproductive toxicity: Based on the existing data, the classification is not met.

STOT-single exposure: The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

STOT-repeated exposure: Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

Aspiration hazard: Based on the existing data, the classification is not met.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Ethanol	96 Hours	Fish	LC50	14.2 g/L
Ethanol	48 Hours	Daphnia	EC50	5012 mg/L
Ethanol	72 Hours	Algae	EC50	275 mg/L
Propan-2-ol	96 Hours	Fish	LC50	9640 mg/L
Propan-2-ol	24 Hours	Daphnia	EC50	> 10000 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Ethanol	Yes	BOD	4 days: 74%
Propan-2-ol	Yes	EU Method C.5	5 days: 53%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Ethanol	No	-0,35	-
Propan-2-ol	No	0,05	-

12.4. Mobility in soil
Test data are not available.
12.5. Results of PBT and vPvB assessment
The product does not meet the criteria for PBT or vPvB.
12.6. Other adverse effects
None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC Code
16 05 08
15 02 02

Specific labelling
-
Contaminated packaging:
Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.
14.1 -14.4.
ADR

UN number	UN proper shipping name	Transport hazard class(es)	Packing group
1987	ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	3	III

IMDG

UN number	UN proper shipping name	Transport hazard class(es)	Packing group
1987	ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	3	III

14.5. Environmental hazards
-
14.6. Special precautions for user
-
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant.

SECTION 15: Regulatory information

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

Sources:
EH40/2005 WELs (United Kingdom (UK), 8/2007).
Restrictions for application:
-
Demands for specific education:
-
Additional labelling:
Declaration in accordance to the EU regulation no. 648/2004:
-

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Other information:
Sources:
EC regulation 1907/2006 (REACH).
Directive 2000/532/EC.
EC Regulation 1272/2008 (CLP).
Full text of H-phrases as mentioned in section 2+3:
H225 - Highly flammable liquid and vapour.
H226 - Flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Classification according to Regulation (EC) Nr. 1272/2008:	
Flam Liq. 3;H226	On basis of test data

Abbreviations and acronyms used in the safety data sheet:
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.
CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
CAS-Number.: Chemical Abstracts Service number.
EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).
DNEL: Derived No Effect Level.
PNEC(s): Predicted No Effect Concentration(s).
STOT: Specific Target Organ Toxicity.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LC50: Lethal Concentration to 50 % of a test population.
EC50: The effective concentration of substance that causes 50% of the maximum response.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.

Other

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Minor changes have been made in following sections:

-

This material safety data sheet replaces version:

-