



Safety Data Sheet according to (EC) No 1907/2006

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OSIS Elastic Flexible Hold Hairspray

SDS No. : 369771

V001.1

Revision: 17.08.2015

printing date: 29.01.2016

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

1.1. Product identifier

OSIS Elastic Flexible Hold Hairspray

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

Intended use:

Hairspray, Aerosol

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Düsseldorf Germany

Henkelstr. 67

40191 Düsseldorf

Phone: +49 211-797-0

E-mail address of person responsible for Safety Data Sheet:

Henkel Cosmetics, e-mail : Rolf.Bayersdoerfer@Henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Flammable aerosol Category 1

Extremely flammable aerosol.

Pressurised container: May burst if heated.

2.2. Label elements (CLP)

Hazard pictogram:



Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statement: Prevention

P210 Keep away from heat/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

Precautionary statement: Storage

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

SECTION 3: Composition/information on ingredients**3.1. Substances****3.2. Mixtures****Hazardous substances according to CLP (EC) No 1272/2008:**

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Ethanol denatured 64-17-5	200-578-6	01-2119457610-43	>= 30- < 50 %	H225 Flammable liquids 2 H319 Serious eye irritation 2

Hazardous substances according to CLP (EC) No 1272/2008: AGW EU

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Dimethyl ether 115-10-6	204-065-8	01-2119472128-37	>= 30- < 50 %	H220 Flammable gases 1 H280 Gases under pressure

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information:

In case of adverse health effects seek medical advice.

Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:

Move to fresh air.

Skin contact:

Rinse with water. Take off all clothing contaminated by the product.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse the mouth. Drink 1-2 glasses of water.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

The release of following substances is possible in case of fire:

carbon oxides.

nitrogen oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Take great care to avoid inhalation of the aerosol.

6.2. Environmental precautions

Do not allow to enter drainage system, surface or ground water of not diluted product.

Do not dispose of in wastepaper bin or trash-can.

6.3. Methods and material for containment and cleaning up

Dilute small quantities with large amount of water and rinse.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handling advice:

No particular measures required.

Fire and explosion protection information:

Take measures to prevent the build-up of electrostatic charges.

Do not spray onto flame or red-hot objects.

Keep away from sources of ignition - no smoking.

Hygiene measures:

Do not eat, drink or smoke while working.

Immediately remove soiled or soaked clothing.

Wash hands before work breaks and after finishing work.

Keep away from food, beverages and animal feed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.

For aerosols: protect from direct sunshine and temperatures above 50°C.

Store far from foodstuffs.

7.3. Specific end use(s)

Hairspray, Aerosol

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Remarks
DIMETHYLETHER 115-10-6	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV
Dimethyl ether 115-10-6	1.000	1.900	Exposure limit(s):	8	TRGS 900

Dimethyl ether 115-10-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Ethanol 64-17-5	500	960	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Ethanol 64-17-5			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

8.2. Exposure controls

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

When processing in open systems with aerosol formation wear suitable respiratory protection to avoid inhalation of aerosol particles.

Hand protection:

Not needed.

Eye protection:

No special measures required if used properly.

Skin protection:

Not needed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The following data apply to the whole mixture:

Appearance

Aerosol
clear
colourless
fresh

Odor

pH

Not applicable

Initial boiling point

Not applicable

Flash point

Not applicable

Decomposition temperature

Not applicable

Vapour pressure

Not applicable

Density (20 °C (68 °F))

0,745 g/cm³

Bulk density

Not applicable

Viscosity

Not applicable

Viscosity (kinematic)

Not applicable

Explosive properties

Not applicable

Solubility (qualitative) (20 °C (68 °F); Solvent: Water)

Partially soluble

Solidification temperature

Not applicable

Melting point

Not applicable

Flammability

Not applicable

Auto-ignition temperature

Not applicable

Explosive limits

Not applicable

Partition coefficient: n-octanol/water

Not applicable

Evaporation rate

Not applicable

Vapor density

Not applicable

Oxidising properties

Not applicable

Container pressure (20 °C (68 °F))

3,65 - 3,95 bar

Container pressure (50 °C (122 °F))

7,40 - 7,60 bar

SECTION 10: Stability and reactivity**10.1. Reactivity**

None if used for intended purpose.

10.2. Chemical stability

None known.

10.3. Possibility of hazardous reactions

See section reactivity

None known.

10.4. Conditions to avoid

Keep away from sources of ignition and naked flames.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information**Acute oral toxicity:**

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethanol denatured 64-17-5	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Dimethyl ether 115-10-6	LD50	> 2.000 mg/kg	oral		rat	

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethanol denatured 64-17-5	LD50	> 2.000 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Dimethyl ether 115-10-6	LD50	> 2.000 mg/kg	dermal		rabbit	

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Ethanol denatured 64-17-5	Category II		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

No data available.

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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Repeated dose toxicity

Hazardous substances CAS-No.	ResultValue	Route of application	Exposure time / Frequency of treatment	Species	Method
Ethanol denatured 64-17-5					
Dimethyl ether 115-10-6	> 10000 ppm	inhalation	4 week6 hours/day, 5 days/week	rat	

Reproductive toxicity:

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

Toxicity (Fish):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethanol denatured 64-17-5	LC50	$\geq 12000 - 16000$	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dimethyl ether 115-10-6	LC50	$> 4.000 \text{ mg/l}$	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethanol denatured 64-17-5	EC50	$> 100 \text{ mg/l}$	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dimethyl ether 115-10-6	EC50	$> 4.000 \text{ mg/l}$	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Toxicity (Algae):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethanol denatured 64-17-5	EC50	$> 100 \text{ mg/l}$	Algae	24 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethyl ether 115-10-6	EC50	$> 1.000 \text{ mg/l}$	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	ResultValue	Route of application	Degradability	Method
Ethanol denatured 64-17-5	readily biodegradable	aerobic	$> 70 \%$	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Dimethyl ether 115-10-6	under test conditions no biodegradation observed	aerobic	5 %	EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:
Consider national regulations.

SECTION 14: Transport information**14.1. UN number**

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
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	Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations/information (Germany):

WGK:	1, slightly water-endangering product. (German VwVwS of May 17, 1999)
Storage class according to TRGS 510:	Classification in conformity with the calculation method 2B

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapor.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.

Further information:

This information is not related to the use of the product, it is based on our current level of knowledge.