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

sds no. : 77013
V006.0

MULTI-WAX SPRAY SD 500ML INTER

Revision: 28.11.2012
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
MULTI-WAX SPRAY SD 500ML INTER

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Corrosion Protection Coating for Metals

1.3. Details of the supplier of the safety data sheet
Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 (211) 797 0
Fax-no.: +49 (211) 798 4008

ua-productsafety.de@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.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
No data available.

Classification (DPD):
F+ - Extremely flammable
R12 Extremely flammable.
N - Dangerous for the environment
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements

Label elements (CLP):
No data available.

Label elements (DPD):

F+ - Extremely flammable

N - Dangerous for the environment

Risk phrases:

R12 Extremely flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapour/spray.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children

2.3. Other hazards

The solvent vapors are heavier than air and may collect in high concentrations at floor level. In use, may form explosive or highly flammable vapor-air mixtures.
The aerosol container is under pressure. Do not expose to high temperatures.

SECTION 3: Composition/information on ingredients

General chemical description:

Cavity conservation compound, solvent containing

Base substances of preparation:

wax

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	265-185-4 01-2119484809-19	< 30 %	Chronic hazards to the aquatic environment 2 H411 Aspiration hazard 1 H304 Specific target organ toxicity - single exposure 3 H336 Flammable liquids 3 H226
Isobutane 75-28-5	200-857-2	< 30 %	Flammable gases 1 H220 Gases under pressure
Propane 74-98-6	200-827-9 01-2119486944-21	< 20 %	Flammable gases 1 H220 Gases under pressure
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0	272-213-9	< 10 %	Chronic hazards to the aquatic environment 4 H413
Naphtha, hydrotreated heavy; (petroleum) 64742-48-9	265-150-3	< 5 %	Aspiration hazard 1 H304
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 5 %	Aspiration hazard 1 H304 Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin irritation 2 H315 Flammable liquids 3 H226

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	265-185-4 01-2119484809-19	< 30 %	R10 N - Dangerous for the environment; R51/53 Xn - Harmful; R65 R66, R67
Isobutane 75-28-5	200-857-2	< 30 %	F+ - Extremely flammable; R12
Propane 74-98-6	200-827-9 01-2119486944-21	< 20 %	F+ - Extremely flammable; R12
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0	272-213-9	< 10 %	R53
Naphtha, hydrotreated heavy; (petroleum) 64742-48-9	265-150-3	< 5 %	Xn - Harmful; R65
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 5 %	Xn - Harmful; R65 R10 Xi - Irritant; R38 Xn - Harmful; R20/21

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

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

Ingestion:
not relevant.

4.2. Most important symptoms and effects, both acute and delayed
Vapors may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

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:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear protective equipment.
Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Danger of slipping on spilled product.
Keep unprotected persons away.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections
See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid open flames and sources of ignition.
Take measures to prevent the build-up of electrostatic charges.

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities
The storage regulations for aerosols apply.
Ensure good ventilation/extraction.
Store in a cool place.
Protect from direct sunlight.
Storage at 15 to 25°C is recommended.

7.3. Specific end use(s)
Corrosion Protection Coating for Metals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

Ingredient	ppm	mg/m³	Type	Category	Remarks
Isobutane 75-28-5			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Isobutane 75-28-5	1.000	2.400	AGW:	4	TRGS 900
Propane 74-98-6	1.000	1.800	AGW:	4	TRGS 900
Propane 74-98-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
XYLENE, MIXED ISOMERS, PURE 1330-20-7	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
XYLENE, MIXED ISOMERS, PURE 1330-20-7	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Xylene 1330-20-7			Skin designation:	Can be absorbed through the skin.	TRGS 900
Xylene 1330-20-7	100	440	AGW:	2	TRGS 900
Xylene 1330-20-7			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Xylene - mixture of isomeres 1330-20-7	aqua (freshwater)					0,327 mg/L	
Xylene - mixture of isomeres 1330-20-7	sediment (freshwater)				12,46 mg/kg		
Xylene - mixture of isomeres 1330-20-7	soil				2,31 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	worker	inhalation	Long term exposure - systemic effects		330 mg/m3	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	worker	dermal	Long term exposure - systemic effects		44 mg/kg	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	inhalation	Long term exposure - systemic effects		71 mg/m3	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	dermal	Long term exposure - systemic effects		26 mg/kg	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	oral	Long term exposure - systemic effects		26 mg/kg	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - systemic effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - local effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	dermal	Long term exposure - systemic effects		180 mg/kg bw/day	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Long term exposure - systemic effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - systemic effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - local effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	dermal	Long term exposure - systemic effects		108 mg/kg bw/day	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Long term exposure - systemic effects		14,8 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Long term exposure - local effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	oral	Long term exposure - systemic effects		1,6 mg/kg bw/day	

Biological Exposure Indices:

Ingredient	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Xylene 1330-20-7	xylene	Blood	Sampling time: End of shift.	1,5 mg/l	DE BAT		
Xylene 1330-20-7	Methylhippuric (toluric) acid	Urine	Sampling time: End of shift.	2 g/l	DE BAT		

8.2. Exposure controls:

Engineering controls:

In case of aerosol forming ensure sufficient suction and ventilation.

Respiratory protection:

Suitable protective mask during fog or aerosol formation.
Filter A1-A3 (brown)

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Wear protective equipment.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to the regulation no. 819 of 19 August 1994.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	aerosol liquid light brown
Odor	characteristic
pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	0,706 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	0,7 %(V)
upper	10,9 %(V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

Ignition temperature	< 300 °C (< 572 °F)

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
Container may burst when heated to over 50ºC. The contents may form explosive, combustible mixture. Avoid ignition sources and naked flames. Comply with warming on container label.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Inhalative toxicity:
Vapors may cause drowsiness and dizziness.

Skin irritation:
Repeated exposure may cause skin dryness or cracking.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	LD50 LC50 LD50	3.523 - 8.700 mg/kg 6350 ppm > 4.350 mg/kg	oral inhalation dermal	4 h	rat rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Isobutane 75-28-5	negative with metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	negative with metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Xylene - mixture of isomeres 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

SECTION 12: Ecological information

General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Do not empty into drains, soil or bodies of water.
Toxic to aquatic organisms
May cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0	EC50	3,3 mg/l	Daphnia	24 h	Daphnia magna	
Xylene - mixture of isomeres 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomeres 1330-20-7	EC50	3,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomeres 1330-20-7	EC50	1 - 10 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0		aerobic	9,1 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %	

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Isobutane 75-28-5	2,88				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Sulfonic acids, petroleum, calcium salts, overbased 68783-96-0	19,7					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Xylene - mixture of isomeres 1330-20-7		8,5	7 d	Oncorhynchus mykiss		
Xylene - mixture of isomeres 1330-20-7	3,12					

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

The valid EEC waste code numbers are not product-related but are largely source-related. These can be requested from the manufacturer.

In consultation with the responsible local authority, must be subjected to special treatment.

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADNR	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADNR	AEROSOLS
IMDG	AEROSOLS (Solvent naphtha)
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2
	2.1
RID	2
	2.1
ADNR	2
	2.1
IMDG	2.1
	2.1
IATA	2.1
	2.1

14.4. Packaging group

ADR	
RID	
ADNR	
IMDG	
IATA	

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADNR	Environmentally Hazardous
IMDG	Environmentally Hazardous
IATA	not applicable

14.6. Special precautions for user

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

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

not applicable

SECTION 15: Regulatory information

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

VOC content 79,4 %

(VOCV 814.018 VOC regulation
CH)

VOC Paints and Varnishes (EU):

Regulatory Basis:	Directive 2004/42/EC
Product (sub)category:	Special finishes
Phase I (from 1.1.2007):	840 g/l
max. VOC content:	561 g/l

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK:	2, water-endangering product. (German VwVwS of July 27, 2005) Classification in conformity with the calculation method
BG regulations, rules, infos:	
	BG data sheet: BGI 621 Solvents
Storage class according to TRGS 510:	2B

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:

R10 Flammable.
R12 Extremely flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
H220 Extremely flammable gas.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.