



Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Revision date: 10/03/2019

Trade name: **contour hybrid cleaning spray**

Version: 2.0 / EN, follows version 1.0 of 24/01/2018 Print date: 10.03.2019

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1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY

1.1 **Identification of substance or mixture:** Liquid skin cleaning spray

Identifier on label/Trade name:

contour hybrid cleaning spray

Other means of identification ----

REACH registration no. ----

1.2 **Use of the substance or mixture**

Liquid skin cleaning spray for all kinds of climbing skins, for use on either side of climbing skins and on skins on climbing zones; as well for cleaning ski bases.

1.2.1 **Uses advised against**

This product may only be used to clean ski skins and the adhesive as well as skin climbing zones on skis and for cleaning ski bases.

No other uses are advised.

1.3. **Company identification**

Manufacturer

ZIPPS Skiwachse GmbH

Fussingen

Waldernbacher Straße 7

D-65620 Waldbrunn

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1.4 **24-hr EMERGENCY TELEPHONE NUMBER** **+49 (0)551 19240**

Giftinformationszentrum-Nord [Poison Control Centre - North]

Zentrum für Pharmakologie und Toxikologie der Universität Göttingen [Institute of Pharmacology and Toxicology,

University of Goettingen

Robert-Koch-Straße 40

D-37075 Göttingen

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2. POTENTIAL HAZARDS

2.1 Hazards identification

Regulation (EC) No 1272/2008 [CLP]

Regulation (EC) No 1272/2008 [CLP]		
Hazard classifications/categories	Hazard statement	Additional information
Inhal. 1	H 304 EUH 066	Additional information: See section 2.2.2 for full text of H statements and section 2.2.4 for EUH statements

2.1.1

Classification

67/548/EEC; 1999/45/EC		
Hazardous properties	R statements	Wording of R statements
Xn	R 65 R 66	Hazardous to health: May cause lung damage if swallowed. Repeated contact may cause skin dryness or cracking

2.2 Labelling

2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP)

Pictograms (GHS)



GHS 08

Signal word DANGER

2.2.2 Hazard statements

H 304	May be fatal if swallowed and enters airways.
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2.2.3 Precautionary statements

P 301 + P 310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor
P 331	Do NOT induce vomiting

2.3. Other hazards

2.3.1. Adverse physicochemical effects:

Liquid and vapours are flammable. They may be ignited by heat, sparks, flames or other ignition sources (e.g. static electricity, ignition flames, mechanical/electrical equipment).

The material is lighter than water and floats on top.

The product's vapours/aerosols are heavier than air and may accumulate on the floor, in holes, channels and



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cellars in higher concentrations. This material can accumulate electrostatic charge by flow or agitation and can be ignited by static discharge.

2.3.2 Possible adverse human health effects and symptoms:

If swallowed and followed by vomiting: ASPIRATION HAZARD!

Repeated skin contact may cause skin irritation and dermatitis due to the product's properties which enable removal of natural fat from the skin.

Risk of skin resorption.

2.3.3 Possible adverse environmental effects:

This product floats on the water's surface and is only minimally water-soluble. This product does not meet the PBT or vPvB criteria for classification according to Annex XIII of the REACH regulation.

2.3.4 Other hazards:

Particular danger of slipping on leaked/spilled product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Information on mixture

Mixture of isalkanes

3.2 Substances

Substance name	EC No.	REACH No.	Index No.	CAS No.	Concentration (%)	Classification according to Regulation (EC) No 1272/2008 [CLP]		Classification according to 67/548/EEC
						Hazard classes/ Hazard categories	Hazard statements	
Isoalkanen	27-241-2 918-481-9	01-2119457273-39	-	-	>10%	Aspiration hazard, Cat. 1	H304: May be fatal if swallowed and enters airways. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. P331: Do NOT induce vomiting.	Particular human and environmental hazard statements: R 20 Harmful by inhalation. R 65 Harmful: may cause lung damage if swallowed. R 66 Repeated contact may cause skin dryness or cracking.



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4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1 General information

Remove victim from the hazard zone. Immediately remove contaminated clothing. Do not leave affected person unattended. Keep affected person still, covered and warm.

4.1.2 Following inhalation

Move affected person to fresh air and keep still. If breathing problems occur or breathing stops Administer artificial respiration. Consult a doctor and show packing or MSDS if spray mist is inhaled.

4.1.3 Following skin contact

Immediately remove contaminated clothing. Wash thoroughly with soap and water. Rub greasy cream/ointment into the skin.

4.1.4 Following eye contact

Immediately rinse carefully and thoroughly with an eye-bath or water.
Ophthalmic treatment.

4.1.5 Following ingestion:

Do not induce vomiting. Give nothing to eat or drink. Immediately consult a doctor.

4.1.6 Self-protection of the first-aider:

Take no personal risks. Wear protective clothing.

4.2. Most important symptoms and effects, both acute and delayed

If swallowed and followed by vomiting: ASPIRATION HAZARD! Symptoms: Coughing, respiratory distress, cyanosis, halting and irregular breathing, intercostal retractions, fine crackles and wheezing sounds on auscultation. Possibly only presenting after 24-48 hours, respiratory insufficiency and the need for ventilation will present itself (chemical pneumonia). Further symptoms: Unconsciousness, depression of the central nervous system, headaches, nausea, dry skin and dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Ventilation with oxygen where necessary. Regulation of blood circulation, possible shock treatment. Subsequent observation for pneumonia or pulmonary oedema.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Foam, dry chemicals, water spray, extinguishing powder, carbon dioxide fire extinguisher

5.2 Extinguishing media unsuitable for safety reasons:

Full water jet

5.3 Particular hazards arising from the substance or the product itself, its combustion products or resulting gases



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Carbon monoxide, smoke, vapour, partial combustion products. The product's vapours are heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration and reignite.

5.4 Special advice for fire-fighters

The necessary measures must be coordinated with the local authorities.

Extinguishing measures should be tailored to the surroundings. Evacuate the area in the event of major accidents.

Wear environment-independent breathing apparatus and chemical protective clothing. Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool containers in hazard zone. Collect contaminated fire extinguishing water separately.

Do not allow run-off into drains or water courses. Remove containers from hazard area if this can be done safely. The product floats to the water's surface and may reignite.

5.5 Additional information:

Fire classification: B (Liquid or liquefying substances)

Temperature classification: T 3 (Ignition temperature > 200°C)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid contact with the skin and eyes. Do not inhale vapours/aerosols. Remove sources of ignition. Remove all persons whose presence is not required from the hazard zone.

Take measures against electrostatic charge. Close leaks without taking any personal risks. Use personal protective equipment. Ensure adequate ventilation. Particular danger of slipping on leaked/spilled product.

The personal protective equipment must be tailored to the situation. Use protective goggles with side guards, protective clothing and footwear, as well as respiratory protection if necessary.

6.2 Environmental precautions:

Do not allow run-off into drains/water courses/soil/subsoil.

Suppress gases/vapours/mist with water spray jet. Ensure that spills can be contained (e.g. in collection trays or catching surfaces).

6.3 Methods for cleaning up

Contain residues with absorbent material (e.g. sand, oil-binding agents or similar absorption agents).

Dispose of in accordance with regulations. Ensure that all waste water is collected and delivered to a waste water treatment plant. If accidentally released into the water, contain the product with barriers and skim off or remove from the water's surface with a suitable absorption agent. Use suitable dispersing agent in flowing waters after consulting the competent authorities. The measures to be taken may be significantly influenced by geographic conditions, wind, temperature, waves and the direction and speed of the current.

6.4 Additional information

In the event of a major accident, evacuate and notify the vicinity and/or authorities. Notify the fire brigade and police if the product has entered waterways or drains or contaminated the soil and plant life. If accidentally released into the water, keep ships away. Inform the harbour police/water police and keep the public away.



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7. HANDLING AND STORAGE

7.1 Handling

7.1.1 Precautions for safe handling and protective measures

Wear personal protective equipment (see Chapter 8)

Take measures against electrostatic charge and keep away from sources of ignition and heat.

Technical measures

Measures to prevent aerosol and dust formation:

Necessary measures to prevent fire and explosion must be coordinated with the competent authorities.

During filling, metering, mixing and dosing work, as well as sampling, splash-proof, grounded devices and, where necessary, devices with local exhaust/gas balance pipes, etc. should be used.

Environmental precautions:

Avoid entry into drains, water and soil by taking suitable measures (e.g. collection trays).

Specific requirements or handling rules

All work processes must be designed in such a way that skin and eye contact as well as inhalation of vapours/mist/aerosols is kept as minimal as possible.

The product should be kept away from food and beverages. Access should only be permitted to authorised personnel.

7.1.2 Advice on fire and explosion prevention:

Take measures against electrostatic charge.

Necessary measures to prevent fire and explosion must be coordinated with the competent authorities.

During filling, metering, mixing and dosing work, as well as sampling, splash-proof, grounded devices and, where necessary, devices with local exhaust/gas balance pipes, etc. should be used.

7.2 Storage

7.2.1 Technical measures and storage conditions

Vapours/aerosols should be safely removed using suction directly at the point of origin.

Use only in well-ventilated areas. Work areas should be designed to allow cleaning at any time.

7.2.2 Packaging materials

Even empty containers may contain product residue and pose risks - continue

to take precautionary measures. Suitable containers: Tank vehicles, IBC, barrel, canister.

Suitable materials: Stainless steel, carbon steel, polyethylene, polypropylene, Teflon.

Unsuitable materials: Natural rubber, butyl rubber, EPDM, polystyrene

7.2.3 Requirements for storage rooms and vessels:

Protect against frost and strong heat. Do not expose the containers to sunlight. Ensure good ventilation.

7.2.4 Advice on combined storage



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Do not store together with highly oxidising substances.

7.2.5 Further information on storage conditions

Storage temperature: Ideal: 15°-25°C

Relative air humidity (%): > 70%

Storage class: LGK 10 (Flash point > 60°C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits

8.1.1. Components with occupational exposure limit values or biological limit values to be observed

8.1.1.1 Occupational exposure limit values:

Air limit values:

Limit value type (Country of origin)	Substance name	EC No.	CAS No.	Occupational exposure limit value		Recommended monitoring and observation	Peak limitation	Source	Remark
				Long term	Short term				
OEL (EU)	Isoalkanes	9 1 8 - 4 8 1 - 9		600mg/cbm				TRGS 900	

Biological limit values:

Limit value type (Country of origin)	Substance name	EC No.	CAS No.	Parameter	Limit value	Test material	Source	Remark
BLV (EU)								

8.1.1.2 Additional exposure limit values under processing conditions -



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8.2 Exposure control and monitoring

8.2.1 Occupational exposure control and monitoring

Technical measures to prevent exposure

Technical measures and the use of suitable work processes have priority over the use of personal protective equipment.

Personal protective equipment:

General:

The choice of personal protective equipment depends on the risk posed by the product, the workplace and handling. Depending on the intended use, suitable personal protective equipment should be coordinated with the manufacturer of the personal protective equipment and the authorities.

Anyone entering the area in which the product is being handled must, at the very least, wear protective goggles with side guards.

Avoid skin and eye contact. Do not inhale vapours/aerosols. While working, do not eat, drink or smoke. Change any contaminated clothing.

Respiratory protection:

Depending on the conditions of use, closed systems or local exhaust devices are recommended in order to keep the product concentration below the recommended exposure limit value. Monitor process emissions directly at the source. The official exhaust air regulations must be observed.

In exceptional circumstances (e.g. accidental release), respiratory protection should be worn.

Observe time limits for use. The following respiratory protection is recommended: Breathing filter for org. gases and vapours (Type A)

Hand and skin protection:

Protective nitrile or Viton gloves, e.g. Camatril Velours 730 (nitrile) or Vitoject 890 (Viton) made by the company KCL. Permeation time > 480 minutes. It is recommended that you clarify with the glove manufacturer the chemical resistance of the above protective gloves for special types of use. Check impermeability before use. If you intend to re-use the gloves, clean them before removal and keep them in a well-ventilated location.

If possible, wear cotton liner gloves. Take recovery periods for skin regeneration

Eye protection:

Tightly-sealed protective goggles with side guards

Body protection:

Depending on the situation, flame retardant chemical protective clothing, chemical-resistant and anti-static protective footwear are necessary. Normal protective clothing should be tailored to the workplace and

associated hazards.

Thermal hazards:

This product is flammable and may quickly form flammable gas/air compounds if heated or sprayed.

8.2.2 Environmental exposure control and monitoring:

Environmental exposure must be kept as low as possible using technical and organisational measures and coordinated with the competent authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state: Liquid



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Colour: Transparent

Odour: Mild, pleasant

9.2 Important information on health and environmental precautions and safety

9.2.1 Basic safety-related data

	Value	Method	Remark
pH (20 °C):	n.a.		
Melting point/range (°C):	< -20°C		
Boiling point/range (°C):	185°-215°C		
Flash point (°C):	65°C	Closed cup	
Ignition temperature (°C):	> 200°C		
Vapour pressure (°C):	< 1hPa		
Density (g/cm ³):	approx. 0.8g/cm ³		
Bulk density (kg/m ³):	n.a.		
Water-solubility (20°C in g/l):	Virtually insoluble		
Partition coefficient n-Octanol/Water (log Po/w):	No data available		
Viscosity, kinematic:	1.8 mm ² /s		
Dust explosion capability:	n.a.		
Explosion limits			
Lower:	0.6%		
Upper:	7.0%		

9.2.2 Substance group-related characteristics

Explosive substance/mixtures and products with explosive substances not explosive, but the formation of explosive vapour/air compounds is possible

Flammable gases This product is a liquid; the formation of flammable vapour/air compounds is possible.

Flammable aerosols Flammable liquid
(all other criteria: n/a)

10. STABILITY AND REACTIVITY

10.1. Reactivity

This product is an inert hydrocarbon. Spontaneous combustion temperature >200°C.

10.2 Conditions to avoid

Open flames, sparks, extreme heat. Contact with strong oxidising agents

10.3 Hazardous decomposition products

Toxic pyrolysis products such as, carbon monoxide, carbon dioxide.



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11. TOXICOLOGICAL INFORMATION

11.1 Acute effects (toxicological tests)

	Effect dose	Species	Method	Remark
Acute oral toxicity	LD50 > 5000mg/kg	Rat	OECD401	
Acute dermal toxicity	LD50 >5000mg/kg	Rabbit	OECD402	
Acute inhalative toxicity	LC50 > 4900mg/m ³ /4h	Rat	OECD403	

Acute oral toxicity

Aspiration hazard in the case of vomiting, aspiration may lead to pulmonary oedema and pneumonia. Classified as Asp.Tox.1 – H 304

11.2 Specific target organ toxicity (single exposure):

No classification.

11.3 Specific target organ toxicity (repeated exposure):

No classification

11.4 Corrosion/Irritation

If swallowed:

Aspiration hazard. See 4.1.7. for symptoms Swallowing may cause irritation to the mouth, throat and digestive system. Swallowing may cause abdominal pain, stomach cramps, nausea, vomiting, diarrhoea, drowsiness or dizziness.

Viscosity: <20.5 mm²/s at 40°C – classified as Asp.Tox 1 – H304.

If swallowed, followed by vomiting, may enter the lungs and cause chemical pneumonitis and pulmonary oedema

Effect on respiratory tract

Highly concentrated vapours/mist/aerosols may irritate the respiratory tract and mucous membranes. The inhalation of thermal decomposition products in the form of vapour, mist or smoke may be hazardous to health.

Effects on the skin

Removes natural fat from the skin, causing skin dryness and cracking.

Effects on the eyes

No classification. May cause slight, short-term eye complaints.

11.5 Sensitisation: Not classified as sensitising

11.6 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Not classified as CMR, not known to be carcinogenic or toxic for reproduction.



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12 ECOLOGICAL INFORMATION

12.1 Acute (short-term) ecotoxicity

Species	Effect dose	Duration	Medium
Daphnia magna	ELO 1000mg/l	48h	Structurally similar substances
Raphidocelis subcapitata	ELO 1000mg/l	72h	Structurally similar substances
Oncorhynchus mykiss	LLO 1000mg/l	96h	Structurally similar substances

12.2 Mobility

Product may enter the soil and cause soil and groundwater contamination.

12.3 Degradability

Wax components are resistant to degradability.

Biodegradability:

Some waxes are biodegradable; fluor waxes are resistant to biodegradability.

Bioaccumulative potential:

Bioaccumulation is not expected.

12.4 Other harmful effects: Not known

13. DISPOSAL CONSIDERATIONS

13.1 Disposal/Waste (Product):

In accordance with Regulation (EC) 75/442/EEC, 91/689/EEC and 2008/98/EC on waste and on hazardous waste, as amended from time to time.

Product residues must be disposed of in observance of the national and regional regulations. Leave chemicals in their original containers. Do not mix with other waste. Containers which have not been cleaned must be handled in accordance with the product.

13.2. Packaging Packaging which has not been cleaned: WARNING! Even empty (completely emptied) containers may contain residues and should not be used for any other purpose.

13.3 Additional information: Accumulation of small quantities: Do not put waste down the drain or into waste bins. Put into collection containers for hydrocarbons. Collection containers must be labelled clearly with the systematic description of their contents and given the corresponding pictograms, H and P statements. Store containers in a well-ventilated location. Dispose of in accordance with regulations.

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSEB):

UN No.: Not dangerous goods



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UN shipping name:
Packaging group:
Warning sign:
Tunnel restriction code:
Environmental hazards:
Special precautions for user:

14.2 Sea transport (IMDG Code/GGVSee [German Ordinance on the Carriage of Hazardous Goods by Sea]):

UN No.: **Not dangerous goods**
UN shipping name:
Packaging group:
Transport hazard classes:
Environmental hazards:
Special precautions for user
Carriage in bulk in accordance with Annex II of the MARPOL Convention 73/78 and in accordance with IBC Code

14.3 Air transport (ICAO-IATA/DGR):

UN No.: **Not dangerous goods**
UN shipping name:
Packaging group:
Warning sign:
Environmental hazards:
Special precautions for user:

15. REGULATORY INFORMATION

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

15.1 EU regulations

Authorisations and/or restrictions on use: See corresponding EU or national legislation for details on use or restrictions.
VOC Directive 1999/13/EC: subject to the VOC Directive, deemed a volatile organic compound
Seveso III Directive 2012/18/EU: not subject to the Directive

15.1.2 National regulations (Germany)

12. BImSchV [German Federal Immission Control Ordinance]/ Störfallverordnung [German Hazardous Incident Ordinance]: not subject to the 12th BImSchV
31st BImSchV: Subject to the 31st BImSchV, deemed a volatile organic compound
Water hazard class: VwVwS [German Administrative Regulation on the Classification of Substances Hazardous to Waters]: 1, ID no. 27, hydrocarbon solvent < 5%
Aromatic hydrocarbons, not labelled as carcinogenic (R45).



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15.2. Chemical Safety Assessment

16. OTHER INFORMATION

16.1 Wording of R and H statements (Number and full text):

H 304 May be fatal if swallowed and enters airways.

301+310 If swallowed: Immediately call a poison centre or doctor.

P 331 Do not induce vomiting.

R 20 Harmful by inhalation

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated contact may cause skin dryness or cracking.

16.2. Abbreviations and acronyms

OEL (EU)	Occupational Exposure Limit (EU)
BLV (EU)	Biological Limit Value (EU)
CAS	Chemical Abstract Service
CMR	Carcinogenic, mutagenic or toxic to reproduction
DNEL	Derived no effect level
EC	Effect concentration
EINECS	European inventory of existing chemical substances
EL	Effect level
IC	Inhibitory concentration
LC	Lethal concentration
LD	Lethal dose
NOEC	No observed effect concentration
NOELR	No observable effect loading rate
PBT	Persistent bioaccumulative toxic chemical
PNEC	Predicted no effect concentration
SDS	Safety Data Sheet
VOC	Volatile organic components
vPvB	Very persistent and very bioaccumulative chemical

16.3. Important literature and data sources

ECHA Data base

16.4. Further information:

The information in this safety data sheet conforms to our knowledge and experiences at the stated point in time. They relate to the pure product alone. If the product is mixed with other materials or fed into a manufacturing process, the information may no longer be correct. There is no guarantee that this information is free of errors or complete. The information does not constitute any assurance.