SAFETY DATA SHEET
UnoDent Stic-off
Orange Solvent Spray

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

1.1. Product identifier

Product name UnoDent Stic-off Orange Solvent Spray

Internal identification IJS200

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

Identified uses Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier

Made for UnoDent Ltd.
address: 10 Perry Way, Witham,
Essex CM8 3SX, UK

Tel: 01376 500582
Fax: 01376 500581

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Aerosol 1 - H222, H229

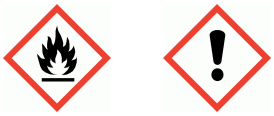
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 4 - H413

Classification (67/548/EEC or 1999/45/EC) R43. F+;R12. N;R51/53. R66.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H413 May cause long lasting harmful effects to aquatic life.

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Precautionary statements	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. P273 Avoid release to the environment. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container in accordance with national regulations. P102 Keep out of reach of children. P260 Do not breathe vapour/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, eye and face protection.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	ISOPARAFFINIC HYDROCARBON, ORANGE OIL
Detergent labelling	≥ 30% aliphatic hydrocarbons

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ISOPARAFFINIC HYDROCARBON **30-60%**

CAS number: — EC number: 923-037-2 REACH registration number: 01-2119471991-29-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Aquatic Chronic 4 - H413	Xn;R65. R10,R53,R66.

HYDROCARBON PROPELLANT **10-30%**

CAS number: 68476-85-7 EC number: 270-704-2

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	F+;R12.

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ORANGE OIL		**10-30%**
CAS number: 8028-48-6	EC number: 232-433-8	
M factor (Acute) = 1		

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Xn;R65. Xi;R38. N;R50/53. R10,R43.

Ethyl alcohol		**10-30%**
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-xxxx

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	F;R11

PROPAN-2-OL		**<1%**
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-xxxx

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	F;R11 Xi;R36 R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Aerosol propelled by liquefied petroleum gas.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact Wash skin thoroughly with soap and water.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion Aspiration hazard if swallowed.

Skin contact Causes skin irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

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Eye contact Causes serious eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Extremely flammable aerosol. Pressurised container: may burst if heated

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrocarbons.

5.3. Advice for firefighters

Protective actions during firefighting Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Do not touch or walk into spilled material. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing, gloves, eye and face protection. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep out of the reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Provide adequate ventilation. Do not expose to temperatures exceeding 50°C/122°F. Wear protective clothing, gloves, eye and face protection. Avoid inhalation of vapours/spray and contact with skin and eyes. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage class Flammable compressed gas storage.

7.3. Specific end use(s)

UnoDent Stic-off Orange Solvent Spray

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ISOPARAFFINIC HYDROCARBON

Long-term exposure limit (8-hour TWA): WEL 1200 mg/m³

HYDROCARBON PROPELLANT

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³
Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

Ethyl alcohol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

ISOPARAFFINIC HYDROCARBON

DNEL
Industry - Inhalation; : N/A
Industry - Dermal; : N/A
Consumer - Inhalation; : N/A
Consumer - Dermal; : N/A
Consumer - Oral; : N/A

PNEC
- Fresh water; N/A
- Marine water; N/A
- Soil; N/A
- Sediment; N/A
- STP; N/A
- Intermittent release; N/A

ORANGE OIL (CAS: 8028-48-6)

DNEL
Workers - Inhalation; Long term systemic effects: 31.1 mg/m³
Workers - Dermal; Long term systemic effects: 8.89 mg/kg/day
Workers - Dermal; Short term local effects: 18.58 mg/cm²
General population - Inhalation; Long term systemic effects: 7.78 mg/m³
General population - Dermal; Long term systemic effects: 4.44 mg/kg/day
General population - Dermal; Short term local effects: 9.29 mg/cm²
General population - Oral; Long term systemic effects: 4.44 mg/kg/day

PNEC
- Fresh water; 0.54 mg/l
- Marine water; 0.054 mg/l
- Intermittent release; 0.577 mg/l
- STP; 2.1 mg/l
- Sediment (Freshwater); 1.3 mg/l
- Sediment (Marinewater); 0.13 mg/l
- Soil; 0.261 mg/kg

ETHANOL (CAS: 64-17-5)

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Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Industry - Inhalation; Short term : 1900 mg/m³ Industry - Dermal; Long term : 343 mg/kg/day Industry - Inhalation; Long term : 950 mg/m³ Consumer - Inhalation; Short term : 950 mg/m³ Consumer - Dermal; Long term : 206 mg/kg/day Consumer - Inhalation; Long term : 114 mg/m³ Consumer - Oral; Long term : 87 mg/kg/day
PNEC	- Fresh water; 0.96 mg/l - Marine water; 0.79 mg/l - Soil; 0.62 mg/kg - STP; 580 mg/l

PROPAN-2-OL (CAS: 67-63-0)

DNEL	Industry - Dermal; Long term systemic effects: 888 mg/kg/day Industry - Inhalation; Long term systemic effects: 500 mg/m³ Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Oral; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m³
PNEC	- Fresh water; 140.9 mg/l - Marine water; 140.9 mg/l - Intermittent release; 140.9 mg/l - Sediment (Freshwater); 552 mg/kg - Sediment (Marinewater); 552 mg/kg - STP; 2251 mg/l - Soil; 28 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Rubber (natural, latex). Nitrile rubber. Neoprene.
Hygiene measures	Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid.
Odour	Orange
pH	Not applicable.

UnoDent Stic-off Orange Solvent Spray

Solubility(ies) Immiscible with water.

9.2. Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion Aspiration hazard if swallowed.

Skin contact May cause sensitisation by skin contact. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Eye contact Causes serious eye irritation.

Toxicological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 5,000.0

Species Rat

Notes (oral LD_{50}) Estimated value.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

UnoDent Stic-off Orange Solvent Spray

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	5,000.0

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Estimated value.

HYDROCARBON PROPELLANT

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	21.0
Species	Rat
ATE inhalation (vapours mg/l)	21.0

ORANGE OIL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,400.0
Species	Rat
ATE oral (mg/kg)	4,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,005.0
Species	Rabbit
ATE dermal (mg/kg)	5,005.0

Ethyl alcohol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,001.0
Species	Rat
ATE oral (mg/kg)	2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0

Acute toxicity - inhalation

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Acute toxicity inhalation (LC_{50} vapours mg/l)	21.0
Species	Mouse
ATE inhalation (vapours mg/l)	21.0

Serious eye damage/irritation

Serious eye damage/irritation	Slightly irritating.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL 1730 mg/kg, Oral,
Target organs	Gastro-intestinal tract Liver

Inhalation	Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes.
Medical symptoms	EYES AND MUCOUS MEMBRANES. Irritation of eyes and mucous membranes. RESPIRATORY SYSTEM. Upper respiratory irritation. SKIN. Skin irritation. DIGESTIVE SYSTEM. Gastrointestinal symptoms, including upset stomach.

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,700.0
Species	Rat
ATE oral (mg/kg)	4,700.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	16.4
Species	Rabbit

SECTION 12: Ecological Information

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Ecological information on ingredients.

Ethyl alcohol

Ecotoxicity	The product is not expected to be hazardous to the environment.

PROPAN-2-OL

UnoDent Stic-off Orange Solvent Spray

Ecotoxicity The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

ORANGE OIL

Acute aquatic toxicity

LE(C)$_{50}$ 0.1 < L(E)C50 ≤ 1 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

Degradability Rapidly degradable

Ethyl alcohol

Toxicity Not considered toxic to fish.

Acute toxicity - fish Not determined.
LC50, 48 hours, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)
LC_{50}, 96 hours: 11.000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 12.34 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, hours: mg/l, Selenastrum capricornutum

PROPAN-2-OL

Toxicity Not considered toxic to fish.

Acute toxicity - fish LC50, 96 hours, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC_{50}, : 9714 mg/l, Daphnia magna
EC_{50}, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours, 72 hours: > 100 mg/l, Scenedesmus subspicatus
IC_{50}, 72 hours: >100 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Ecological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Persistence and degradability The product is expected to be biodegradable.

Ethyl alcohol

Persistence and degradability The product is readily biodegradable.

UnoDent Stic-off Orange Solvent Spray

Biodegradation - Half-life : 1 - <10

PROPAN-2-OL

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Bioaccumulative potential No data available on bioaccumulation.

Ethyl alcohol

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient : -0.031

PROPAN-2-OL

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is immiscible with water and will sediment in water systems.

Ecological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ethyl alcohol

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

PROPAN-2-OL

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

PROPAN-2-OL

UnoDent Stic-off Orange Solvent Spray

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not applicable.

Ecological information on ingredients.

ISOPARAFFINIC HYDROCARBON

Other adverse effects None known.

Ethyl alcohol

Other adverse effects Not known.

PROPAN-2-OL

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

IMDG class 2.1

ADN class 2.1

Transport labels

UnoDent Stic-off Orange Solvent Spray

14.4. Packing group

ADR/RID packing group 5F

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 15/01/2016

Revision 1.1

Supersedes date 27/05/2015

SDS number 14505

Risk phrases in full R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

UnoDent Stic-off Orange Solvent Spray

Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.