

Safety Data Sheet

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

1.1 Product identifier **SCANSPRAY**

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Product is used in dental laboratory for extraoral use on prepared models and impressions before scanner exposure.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:	INTERDENT d.o.o.	<i>Production:</i> INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

1.4 Emergency telephone number

Emergency phone: 112 (EU)
+386(0) 425-62-00 (Mon. – Fri.: 8.00 – 16.00)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statements
Flammable aerosols	1	H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
Specific target organ toxicity single exposure	STOT SE 3 (narcotic effects)	H336 May cause drowsiness or dizziness.
Aquatic Chronic	3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:

Safety Data Sheet



Signal word: DANGER

Hazard statements:

- H222 Extremely flammable aerosol.
- H229 Pressurized container: May burst if heated.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:

Prevention:

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.

Storage:

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

Disposal

- P501 Dispose of contents/containers in accordance with local regulation

2.3 Other hazards

PBT and vPvB evaluations are in chapter 12.5

SECTION 3: Composition / information on ingredients

3.1 Mixtures:

Chemical name	INDEX number EC-Number CAS Nr.	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Isobutane	601-004-00-0 200-857-2 75-28-5	50-100	Flam. Gas 1 Press Gas C	H220 H280
Ethanol	603-002-00-5 200-578-6 64-17-5	2,5-10	Flam. Liq. 2	H225
Pentane	601-006-00-1	< 5	Flam. Liq. 2,	H225

Safety Data Sheet

	203-692-4 109-66-0		Asp. Tox. 1, Aquatic Chronic 2, STOT SE 3, EUH066	H304 H411 H336
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SECTION 4: First Aid Measures

4.1 Description of first aid measures

Inhalation:

Remove victim to the fresh air and place it in half sitting position. Ask for medical attention if difficulties appear. Do not inject adrenaline or its derivatives.

Skin contact:

Remove contaminated clothes. Wash off with plenty of water and soap immediately.

Eye contact:

Wash off open eye with plenty of water. Ask for medical help when difficulties appear.

Ingestion:

Do not induce vomiting. First wash mouth with water and then drink 100 mL of water. Ask for medical attention and show safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Coughing and sneezing.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

CO₂, foam, powder, water fog.

Unsuitable:

Water jet.

5.2 Special hazards arising from the substance or mixture

Threaten containers cool down with dispersed jet of water. Risk of explosion if heated under confinement. Violent eruption of containers may occur under fire conditions.

5.3 Advice for firefighters

Special protective equipment for firefighting:

Large amount of gases can be released during fire – wear suitable gas – mask.

Safety Data Sheet

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from the source of ignition. take care for the good ventilation. Avoid contact with skin, eyes and inhalation. Remove containers that cannot be tightly closed.

6.2 Environmental precautions

Do not allow enter sewage system or waters. Absorb spillage with adsorbent. Discard in accordance with local law.

6.3 Methods and material for containment and cleaning up

No data available

6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Packing under pressure. Do not open it by force or set on fire. Discard only completely empty packages. Do not spray in the flame or red-hot objects.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature in good ventilated location, safe against fire. Protect it from the direct sun light and temperature above 50°C.

7.3. Specific end use(s)

Product is intended to be used in dental laboratories.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Council Directive 98/24/EC with all implementations and amendments

Official Gazette RS, No. [100/01](#), [39/05](#), [53/07](#), [102/10](#), [43/11](#) – ZVZD-1, [38/15](#), [78/18](#), [78/19](#), [72/21](#)

Ingredients with limit values that have to be considered and measured in the working place

Isobutane

OEL	Current exposure: 9600 mg/m ³ , 4000 ppm Long-term exposure: 2400 mg/m ³ , 1000 ppm
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Safety Data Sheet

Pentane	
OEL	Current exposure: 6000 mg/m ³ , 2000 ppm Long-term exposure: 3000 mg/m ³ , 1000 ppm (Y, EU ²)*
Ethanol	
OEL	Current exposure: 1920 mg/m ³ , 1000 ppm Long-term exposure: 960 mg/m ³ , 500 ppm (Y)*
<p>* Y – Substances for which there is no danger to the fetus based on limited values and BAT values; EU² - Limit value set by Commission Directive 2006/15/EC of 7 February 2006 on establishing another list of indicative limit values for occupational exposure at implementing Council Directive 98/24/EC and amending Directive 91/322/EEC and the Directive 2000/39/EC (OJ L, No. 38 of February 9, 2006, p. 36).</p> <p>Limit under which substance has not effect (DNEL) No data available.</p> <p>For seen concentration without effect (PNEC): No data available.</p> <p>8.2 Exposure controls Personal protective equipment in accordance with Regulation (EU) 2016/425 and list of harmonized standards for personal protection equipment 2018/C 209/03.</p> <hr/> <p><i>Common protection and hygienic measures:</i> Avoid contact with skin and eyes. Contaminated clothes took of immediately. Do not breath vapor, aerosol or gases. Do not eat, drink or smoke during work. Protect food. Wash hands before meal and after meal.</p> <p><i>Respiratory protection:</i> In good ventilated area protection is not necessary.</p> <p><i>Hand protection:</i> Wear nitrile or butyl gloves (EN ISO 374-1:2016).</p> <p><i>Eye protection:</i> Protective goggles (EN 166:2001).</p> <p>8.2.2 Control of environment protection Common instructions: Do not wash rinse with fresh water or to drainage system.</p>	

Safety Data Sheet

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
Physical state	aerosol
Colour	white
Odour	characteristic
pH	No data available
Density	0,64 g/mL (20°C)
Boiling point	-11°C
Flash point	n.a.
Melting point	n.a.
Auto ignition temperature	460 °C
Upper explosion limit	8,5 % (V)
Lower explosion limit	1,8 vol %
Solvent content: VOC (EU)	94 %
Solid content	< 10 %
Decomposition temperature	n.a.
Density and/or relative density	n.a.
pH	No data available
Solubility in water	Not soluble
Partition coefficient n-octanol/water (log value)	n.a.
Vapour pressure	3000 hPa (20°C)
Kinematic viscosity	n.a.
Oxidative properties	n.a.
Particle characteristics	n.a.
9.2 Other information	
No additional information relevant to safe use of the mixture.	

SECTION 10: Stability and reactivity
10.1 Reactivity
Stable under recommended storage conditions and the intended use.
10.2 Chemical stability
Stable under normal conditions and proper use.
10.3 Possibility of hazardous reaction

Safety Data Sheet

Explosion possible at temperature higher than 50°C because of higher pressure in the package. Possible formation of explosive mixture with air. Reaction with oxidants.

10.4 Conditions to avoid

Heat, flame. High temperature raise pressure in packaging and packaging can explode. Product is aerosol and must not be sprayed in flame.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

None under normal conditions of storage and use.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Chemical name: Isobutane

Acute toxicity:

Important LD/LC50 values:

Oral	LD50	No data available
Dermal	LD50	No data available
Inhalation	LC50	658000 mg/m ³ (4 h, rat) - RTECS

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Reproductive toxicity: Not classified.

Teratogenicity: Not classified

STOT-single exposure: May cause drowsiness or dizziness (pentane)

STOT-repeated exposure: Not classified as STOT – repeated exposure.

Aspiration hazard: Not classified as aspiration hazard.

Practical experience:

Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Do not allowed enter sewage system, waters, underground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC, Official Gazette RS 37/15, 69/15

Methods of disposal: Dispose in accordance with Regulation about handling with waste.

Recommendation: Do not dispose with domestic waste. Store waste separately. Due to the risk of contamination dispose of with industrial waste or as hazardous waste.

Category of disposal packaging:

European waste catalogue

16	Wastes not otherwise specified in the list
16 05	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing dangerous substances


Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. Store waste separately. Due to the risk of contamination dispose of with industrial waste or as hazardous waste.

Safety Data Sheet

15 01 11* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
14.1 UN number	UN 1950		
14.2 UN proper shipping name	AEROSOLS		AEROSOLS, flammable
14.3 Transport hazard class(es)			
Class	2	2.1	
Classification code	5F	/	/
Label(s)	2.1 		
Hazard identification number	/	/	/
Transport category (Tunnel restriction code)	2 (D)	/	/
EmS	/	F-D, S-U	/
14.4 Packing group	Void		
14.5 Environmental hazards	No environmental hazard		
14.6 Special precautions for user	Warning: Gases		
14.7 Maritime transport in bulk according to IMO instruments	No data available		

ADR

- Exempt quantities (EQ): E0
 - Limited quantity (LQ) 1L
 - Exempt quantities (EQ) code: E0
- Not permitted in exempt quantities
- Transport category 2
 - Tunnel restriction code D

Safety Data Sheet

- IMDG
 - Limited quantities (LQ) 1L
 - Excepted quantities (EQ) code: E0
- Not permitted as Excepted Quantity

SECTION 15: Regulatory information

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

Product is classified in accordance with directive EC 1907/2006 and 1272/2008 and additional changes or national legislation Ur.l. RS 101/2002 and Ur.l.RS 16/2008.

- Regulation (EC) no. 1907/2006 of the European Parliament and the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), on the establishment of the European Chemicals Agency and the amendment of Directive 1999/45/EC and the repeal of Council Regulation (EEC) no. 793/93 and Commission Regulation (EC) no. 1488/94 and Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC (amendment of Commission Regulation (EU) No. 830/2015) - as amended
- Regulation (EC) no. 1272/2008 of the European Parliament and the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and the amendment of Regulation (EC) no. 1907/2006 – as amended
- Chemicals Act /ZKem/
- Regulation on waste (Official Gazette of the Republic of Slovenia, no. 37/15 and 69/15)
- Regulation on the handling of packaging and waste packaging (Official Gazette of the RS, no. 84/06, 106/06, 110/07, 67/11, 68/11 – pop., 18/14, 57/15, 103/15, 2/16 – pop., 35/17, 60/18, 68/18, 84/18 – ZIURKOE and 54/21)
- Decision on the publication of Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road /ADR/
- Rules on the protection of workers from risks due to exposure to chemical substances at work (Official Gazette of the RS, no. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 and 78/19, 72/21)
- Regulation on the implementation of the Regulation (EU) on personal protective equipment (Official Gazette of the Republic of Slovenia, No. 33/18)
- List of harmonized standards for personal protective equipment (C 412 / 11.12.2015, with all amendments and additions) - Occupational Safety and Health Act (Official Gazette of the RS No. 43/2011)

15.2 Chemical safety assessment

No data available.

Safety Data Sheet

SECTION 16: Other information

Revision:

Version 01 issued on January 2024 in accordance with EC No. 1907/2006 (Commission Regulation (EU) 2015/830) and EC No. 1272/2008.

In accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Legend of abbreviations:

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

CMR – Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived no-effect level

EC₅₀: Half maximal effective concentration

EmS – Emergency Schedule

GHS – Globally Harmonised System of Classification and Labeling of Chemicals

IATA – International Air Transport Association

IUCLID – International Uniform Chemical Information Database

IMDG – International Maritime Dangerous Goods Code

LC₅₀: Lethal concentration, 50%

LD₅₀: Median lethal dose; the dose causing 50% lethality

MARPOL – International convention for the prevention of pollution from ships

NOEC - No-observed-effect concentration

NOAEL – No-observed-adverse-effect level

NTP- National Toxicology Program

OEL - Occupational exposure limit

OECD - Organisation for Economic Co-operation and Development

PBT – Persistent Bioaccumulative Toxic

PNEC: Predicted no-effect concentration

Ppm – parts per million

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RTECS – The Registry of Toxic Effects of Chemical Substances

RID – Regulation concerning the international carriage of dangerous goods by rail

vPvB – very Persistent and very Bioaccumulative

References:

Safety data sheets of the substances for the product

Directive EC 1907/2006 and 1272/2008 with all amendments

Council Directive 98/24/EC with all implementations and amendments (Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19);

Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.

European convention about international transport of hazardous material ADR

Disclaimer of expressed and implied warranties:

Safety Data Sheet

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.