Safety Data Sheet

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

1.1 **Product Identifier**

Material name : TATTOO SPRAY® SKIN-COVER SEALANT

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

Product use : Protective Coating

1.3 **Details of the supplier of the safety data sheet**

Manufacturer/Supplier: Tattoo Spray Ltd

Suite 5 Business Centre Innsworth Technology Park

Innsworth Lane

Gloucester, Gloucestershire GL3 IDL

Tel. : 01242 394040

Email (for SDSs): sales@tattoospray.co.uk

1.4 **Emergency tel. no**.: 01242 394040

2. HAZARDS IDENTIFICATION

2.2 Label elements

Signal word: Danger

Pictogram(s):

P-Statements:

P261Avoid breathing vapour/spray.

P271

P273 breathing. Avoid release to the environment.

P-Statements (continued)

P501	Dispose of contents/container in accordance with local/national regulations.

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

2.3 Other hazards

In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components			
Chemical Name	**CAS No./**	**Classification**	**Content**
	EC No./	**(1272/2008/EC)**	
	Reg. No		
ISOPENTANE	78-78-4	Flam.Liq.1; H224	10-15%
	201-142-8	Asp.Tox.1; H304	
	01-2119475602-38-	STOT SE3; H336	
	xxxx	Aq.Chron.2; H411	25-50%
ETHANOL	64-17-5	Flam.Liq.2; H225	
	200-578-6		
LIQUEFIED PETROLEUM GAS	68476-85-7	Flam.Gas 1; H220	25-50%

	270-704-2	Gas under pressure; H280	
(contains <0.1% 1,3-butadiene)	–		

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.2	**Most important symptoms and effects, both acute and delayed:** No specific concerns.	
4.3	**Indication of any immediate medical attention and special treatment needed:**	No specific concerns.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media		
Suitable extinguishing media:	Carbon dioxide; dry chemical powder; alcohol or polymer foam.	
Unsuitable extinguishing media:	High volume water jet	
5.2 Special hazards arising from the substance or mixture		
Specific hazards during fire-fighting:	Irritating/toxic fumes may be released at elevated temperatures.	
5.3 Advice for fire-fighters:		

Special protective equipment:		Wear self-contained breathing apparatus. Use personal protective equipment.
Further information:		Standard procedure for chemical fires. Use water spray to cool containers.
		Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe spray mist. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Isopentane	1800 mg/m3/600ppm	–	Supplier

Ethanol	1920 mg/m3/1000ppm	–	EH40/2005
Liquefied petroleum gas	1750 mg/m3/1000ppm	2810 mg/m3/1250 ppm	EH40/2005

8.2 Exposure controls Engineering measures: Ensure there is sufficient ventilation of the area. **Personal protective equipment Respiratory protection**: Unlikely to be necessary in normal circumstances. **Hand protection**: Not applicable given the product usage. **Eye protection**: Not required**. Skin and body protection**: General workwear. **Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use. **Environmental exposure controls:** Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour Aerosol emitting colourless spray.

Odour Hydrocarbon

Odour Threshold No data available

Flammability Extremely flammable

Flash point <0°C

Lower explosion limit 0.8%

Upper explosion limit 19.0%

Explosive properties Not explosive

Thermal decomposition No data available

Auto-ignition temperature >230°C

Oxidising properties Non-oxidising

Solubility in water Partially soluble

Solubility in other solvents Soluble in most organic solvents.

pH Not applicable

Melting point/range No data available

Boiling point/range No data available

Relative density No data available

Vapour pressure No data available

Vapour density No data available

Partition coefficient: n-octanol/water No data available

Viscosity (kinematic) Non–viscous (liquid material)

Evaporation rate No data available

10. STABILITY AND REACTIVITY

10.1	**Reactivity**	Generally non-reactive.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	None if stored and used as directed.
10.4	**Conditions to avoid**	None known.
10.5	**Incompatible materials**	None known.
10.6	**Hazardous decomposition products**	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity			
Chemical name	**Oral (LD50)**	**Inhalation (LC50)**	**Dermal (LD50)**
Ethanol	>10470 mg/Kg (Rat)	>20mg/l (Mouse) 4h	>15800 mg/Kg (Rat)
Liquefied petroleum gas	Not applicable	>20mg/l (Rat) 4h	Not applicable
Skin corrosion/irritation:	Not classed as a skin irritant.		
Serious eye damage/eye irritation:	May cause slight irritation at high concentrations.		
Respiratory or skin sensitisation:	Not classed as a respiratory or skin sensitizer.		

Repeated dose toxicity:	Not expected to be a hazard.		
Carcinogenicity:	Not carcinogenic.		
Mutagenicity:	Not mutagenic.		
Toxicity for reproduction:	Not expected to be a hazard.		
Specific target organ toxicity (STOT):	Inhalation of high concentrations of vapour may cause drowsiness or dizziness.		
Further information			

The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist.

12. ECOLOGICAL INFORMATION

12.1 Toxicity			
Chemical name	**Species**	**Test**	**Value**
Ethanol	Daphnia	EC50 48h	12.34 mg/l
	Golden Orfe	LC50 48h	>100 mg/l
	Algae	EC50 48h	>100 mg/l

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and chronic effects would not be observed in practice.

12.2 Persistence and degradability Liquefied petroleum gas is expected to be readily biodegradable. Oxidises rapidly

by photochemical reactions in air.

12.3	**Bioaccumulative potential**	Not expected to bioaccumulate significantly.

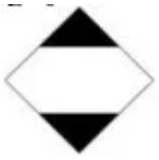
12.4	**Mobility in soil**	The liquid content is insoluble in water.
12.5	**Results of PBT and vPvB assessment**	Contains no PBT or vPvB substances.
12.6	**Other adverse effects**	None expected.
13. DISPOSAL CONSIDERATIONS		
13.1	**Waste treatment methods**	

Disposal operations: Dispose of in accordance with local and national regulations.

Contact licensed waste disposal company. Most aerosols can be recycled.

Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:  The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number		ADR/RID/ADN; IMDG; ICAO	1950	
14.2 UN proper shipping name		AEROSOLS		
14.3	**Transport hazard class(es)**	ADR/RID/ADN Class	2, 5F	
		ADR/RID/ADN Class	Class 2, Gases	
		ADR Label No.	2.1	
		IMDG Class	2	
		ICAO Class/Division	2	

		ICAO Class/Division	2	
		ICAO Subsidiary risk	2.1	
		Transport labels		
14.4 Packing Group		ADR/RID/ADN; IMDG; ICAO	Not applicable for aerosols	
14.5	**Environment hazards**	Marine Pollutant	Not applicable for aerosols.	
14.6	**Special precautions for user**	EMS	F-D,S-U	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				Not applicable for aerosols.

15. REGULATORY INFORMATION

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No.453/2010.

Full text of H-statements referred to under sections 2 and 3

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H224 Extremely flammable liquid and vapour.

H225 Highly 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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long-lasting effects.

H412 Harmful to aquatic life with long-lasting effects.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 11).

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall

be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.