



Material Safety Data Sheet

EU regulation 1907/2006/EEC (REACH)

Rev. date: 29-jul-08

No. of pages: 4

1. Identification of the substance / preparation and of the company

Product name	Marking spray green
Use	Marking colour for pigs.
Product delivered by	JØRGEN KRUUSE A/S Havretoften 4, DK-5550 Langeskov. Denmark Phone: +45 7214 1511 Fax: +45 7214 1600 E-mail: info@kruuse.com Web: http://www.kruuse.com
Emergency telephone	112

2. Hazards identification

Classified as dangerous	Yes
Classification	F+ Extremely flammable.
Main hazards:	
- for the substance	Extremely flammable.
- for human	Irritating to eyes. Vapours may cause drowsiness and dizziness.

3. Composition / information on ingredients

Einecs / Elincs name	Chemical name	Contents %	Cas no.	Classification *	Other
200-578-6	alcohol	20-80%	64-17-5	F	R11
200-857-2	isobutane (containing <0.1% butadiene (203-450-8))	<20%	75-28-5	F+	R12
203-448-7	butane (containing <0.1% butadiene (203-450-8))	<20%	106-97-8	F+	R12
200-827-9	propane	<20%	74-98-6	F+	R12
200-661-7	propane-2-ol	<20%	67-63-0	Xi, F	R11, R36, R67
201-142-8	isopentane	<1%	78-78-4	Xn, F+, N	R12, R51, R53, R65, R66 R67
Composition					

* See section 16 for description of R-phrases

4. First-aid measures

General information	Inhalation of high concentrations may cause headache, nausea, drowsiness and dizziness.
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Skin	Rinse the skin thoroughly with water.
Eyes	Immediately flush eyes with water for at least 15 minutes.
Inhalation	Move the exposed person to fresh air at once.
Ingestion	Ingestion of harmful amounts is hardly possible during normal use of the product but accidental ingestion may cause irritation in mouth and stomach pain and vomiting.
Burns	Rinse with water until the pain disappears.

5. Fire-fighting measures

Measures against fire	Cool exposed containers with water. Dispose of contaminated extinguishing water in accordance with local regulations. Remove sources of ignition and ensure that the area is well ventilated.
Extinguishing media	Water spray, powder and carbon dioxide.
Extinguishing media which must NOT be used	Water jet.
Special exposure hazards	Keep away from open flame and ignition sources.

6. Accidental release measures

Personal precautions	Provide adequate, efficient ventilation.
Environmental precautions	Prevent the product from entering drains.
Cleaning up	Dispose according to local regulations. Prevent waste from entering sewers or waterways.
Other things	Keep away from open flame and ignition sources.

7. Handling and storage

Handling	Keep away from heat, sparks and open flame.
Storage	Keep away from open flame and ignition sources. Observe technical instructions regarding toxic and flammable liquids.
Other things	Must be stored above freezing point. Must be stored at temperatures below 40°C, protected from sunlight. No smoking and use of open fire. Provide adequate, efficient ventilation.

8. Exposure controls / personal protection

Technical precautions, Work processes	Provide adequate, efficient ventilation.
Personal protection (respiratory, hands, skin, eyes)	If ventilation is insufficient, use breathing apparatus with filter type A. Wear respiratory protection. Gloves are available on shelves in workshop. See general instructions. Wear safety goggles or face shield to protect from splashing. Organic solvents act as degreasers on skin.
Other things	Keep away from open flame and ignition sources.



Occupational exposure limits

CAS no.	Substance	ml/m ³	mg/m ³	F/m ³	Category	Type
64-17-5	alcohol		1900			
106-97-8	butane (containing <0.1% butadiene (203-450-8))		1200			
74-98-6	propane		1800			
67-63-0	propane-2-ol		490			
78-78-4	isopentane		1500			

9. Physical and chemical properties

Appearance	Aerosol	Colour	Green
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10. Stability and reactivity

Stability	The product is stable in normal use.
Conditions to avoid	Keep away from heat and direct sunlight.

11. Toxicological information (health effects)

Inhalation	Inhalation of high concentrations may cause headache, nausea, drowsiness and dizziness.
Skin	May irritate the skin.
Eyes	May irritate the eyes.
Ingestion	Ingestion of larger amounts could cause discomfort.
Long-term effects	If irritation continues, please consult a doctor.

12. Ecological information

General	Prevent waste from entering sewers or waterways.
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13. Disposal considerations


General information	The product is hazardous waste and must be disposed of according to local regulations.		
Dangerous waste	Yes	Waste code	05.99
Methods of disposal	Dispose according to local regulations.	EAK	16 05 04
Chemical waste group	Z	Description	Gases in pressurised container (including halons) containing hazardous substances.

14. Transport information

Transportation	UN no.	Proper shipping name	Danger class	Packaging group	Other (marine pollutant)
IMDG (ship)	1950	AEROSOLS	2.1		
ADR (road)	1950	AEROSOLS	2.1		

Transportation	UN no.	Proper shipping name	Danger class	Packaging group	Other (marine pollutant)
RID (rail)	1950	AEROSOLS	2.1		
ICAO / IATA (air)	1950	AEROSOLS, FLAMMABLE	2.1		

15. Regulatory information

Danger description	Letter	Description	Danger symbol
	F+	extremely flammable	
R-phrases (risks)	R12 R67	Extremely flammable. Vapours may cause drowsiness and dizziness.	
S-phrases (precaution rules)	S(2) S26 S51	Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use only in well-ventilated areas.	
Other things	Pressurised container. Keep away from open flame and ignition sources. Must be stored at temperatures below 50°C, protected from sunlight. Keep away from children. No smoking and use of open fire. Do not spray on a naked flame or any incandescent material. Dispose of empty containers according to local regulations. Do not pierce or burn, even after use.		

16. Other information

Recommended restrictions on use	Working conditions of user are outside our control. Must be stored above freezing point.	
Other things	This Material Safety Data Sheet has been prepared based on the supplier's information about physical/chemical properties and all ingredients in the product.	
R-phrases from section 2 and 3	R11 R12 R36 R51 R53 R65 R66 R67	Highly flammable. Extremely flammable. Irritating to eyes. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Revision history

Version	Revision date	Change
1	29-jul-08	First release