

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023

Version: 2.0.0

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

1.1. Product identifier

Trade name: Green Markingspray

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

Recommended uses: Paint Green

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Kramp UK Ltd
Address: Unit 5
Lancaster Way
Zip code: SG18 8YL
City: Biggleswade
Country: UNITED KINGDOM
E-mail: sales.uk@kramp.com
Phone: +44(0)1767 602 600

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)). The emergency telephone is open 24 hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Aerosol 1;H222
Aerosol 1;H229
Eye Irrit. 2;H319

Most serious harmful effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

2.2. Label elements

Pictograms

**Signal word:** Danger

Hazard Statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.

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.
P403 Store in a well-ventilated place.
P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
ethanol	64-17-5 200-578-6 01-2119457610-43	60 - 100 %		Flam. Liq. 2;H225 Eye Irrit. 2;H319
butane	106-97-8 203-448-7	10 - 30 %		Flam. Gas 1A;H220
propane	74-98-6 200-827-9	10 - 30 %		Press. Gas Comp. gas;H280
isobutane	75-28-5 200-857-2	10 - 30 %		Press. Gas Comp. gas;H280

Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin contact: Remove contaminated clothing. Seek medical advice in case of persistent discomfort. Wash skin with soap and water.

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

Eye contact: Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

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

Inhalation of vapours/spray mist may cause irritation to the upper airways. If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract. Irritating to eyes. Causes a burning sensation and tearing. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

CAUTION! Aerosol containers may explode. Can generate harmful flue gases containing carbon monoxide in the event of fire. Heating will cause a rise in pressure in packaging with a risk of bursting.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Wear gloves. Provide adequate ventilation. Smoking and naked flames prohibited. Wear safety goggles.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Wipe up drops and splashes with a cloth. Provide good ventilation.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

Work under effective process ventilation (e.g. local exhaust ventilation). Use the product under well-ventilated conditions, preferably outdoors. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Storage temperature: 10 - 50 °C. Store in a dry, cool, well-ventilated area. Avoid direct sunlight.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
ethanol	8h	1.000	1.920			
ethanol	15m					
butane	8h	600	1450			
butane	15m	750	1.810			

Measuring methods:

Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis:

EH40/2005 Workplace exposure limits. Last amended January 2020.

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

PNEC / DNEL

DNEL / PNEC

Substance	Ethanol
DNEL	Group: Consumer

PNEC

Route of exposure: Long-term dermal (systemic) Value: 206 mg/kg Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 950 mg/m ³ Group: Professional Route of exposure: Long-term dermal (systemic) Value: 343 mg/kg Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 114 mg/m ³ Group: Consumer Route of exposure: Acute inhalation (local) Value: 950 mg/m ³ Group: Professional Route of exposure: Acute inhalation (local) Value: 1900 mg/m ³ Group: Consumer Route of exposure: Long-term oral (systemic) Value: 87 mg/kg Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 600 mg/m ³	Route of exposure: Soil Value: 22,5 mg/kg Route of exposure: Saltwater Value: 55,8 mg/l Route of exposure: Saltwater sediments Value: 284,7 mg/kg Route of exposure: Freshwater Value: 55,8 mg/l Route of exposure: Sewage treatment plant STP Value: 709 mg/l Route of exposure: Freshwater sediments Value: 284,74 mg/kg
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8.2. Exposure controls

Appropriate engineering

Wear the personal protective equipment specified below.

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023

Version: 2.0.0

controls:

Personal protective equipment, eye/face protection: Wear safety goggles. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: In case of spraying/formation of spraying mists: Filter type: A. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

Heating hazards: CAUTION! Aerosol containers may explode.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Aerosol
Colour	Green
Odour	Alcohol
Solubility	Not miscible with the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	No data	
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

10.1. Reactivity

The product may ignite on contact with e.g. heat or a spark.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Product vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Can generate harmful flue gases containing carbon monoxide in the event of fire.

SECTION 11: Toxicological information

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

Acute toxicity - oral

ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		10470 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Spray mist in mouth may irritate mucous membranes in mouth and throat.

Acute toxicity - dermal

ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		17100 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4h	124.7 mg/l			

butane, cas-no 106-97-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LC50	2 h	1237 mg/l			

propane, cas-no 74-98-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LC50	2 h	1237 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: Test data are not available. The product does not have to be classified.

Serious eye damage/eye Irritating to eyes. Causes a burning sensation and tearing.

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023

Version: 2.0.0

irritation:

Respiratory sensitisation or skin sensitisation: Test data are not available. The product does not have to be classified.

Germ cell mutagenicity: Test data are not available. The product does not have to be classified.

Carcinogenic properties: Test data are not available. The product does not have to be classified.

Reproductive toxicity: Test data are not available. The product does not have to be classified.

Single STOT exposure: Test data are not available. The product does not have to be classified. Inhalation of spray mist is irritating to the upper airways. If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

Repeated STOT exposure: Test data are not available. The product does not have to be classified.

Aspiration hazard: Test data are not available. The product does not have to be classified.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna	48 h	48hEC50	12340 mg/l			
Fish	Pimephales promelas	96 h	96hLC50	15300 mg/l			
Algae	Chlorella vulgaris	96 h	EC50	275 mg/l			

butane, cas-no 106-97-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Name of species not specified		96hLC50	24.11 - 147.54 mg/l			
Algae	Name of species not specified		96hEC50	7.71 - 19.37 mg/l			
Crustacea	Name of species not specified		48hLC50	14.22 - 69.43 mg/l			

propane, cas-no 74-98-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Name of species not specified	96 h	96hLC50	27.98 mg/l			
Crustacea	Daphnia sp.	48 h	48hLC50	14.22 mg/l			

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023

Version: 2.0.0

Algae	Name of species not specified	96 h	96hEC50	7.71 mg/l			
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isobutane, cas-no 75-28-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Name of species not specified	96 h	EC50	7.71 - 19.37 mg/l			
Fish	Name of species not specified	96 h	LC50	24.11 - 147.54 mg/l			
Crustacea	Daphnia sp.	48 h	LC50	14.22 - 69.43 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		97 %			

butane, cas-no 106-97-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		358,5 h	Biodegradability	100 %			

propane, cas-no 74-98-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		385,5 h		100 %		OECD test	

isobutane, cas-no 75-28-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		385,5 h		100 %		OECD test	

Readily biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation expected. Test data are not available.

12.4. Mobility in soil

Test data are not available. The product contains at least one substance with high soil mobility.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

Avoid unnecessary release to the environment. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility.

Category of waste: EWC code: Depends on line of business and use, for instance 16 05 04* gases in pressure containers (including halons) containing hazardous substances

Absorbent/cloth contaminated with the product: 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	1950	14.4. Packing group:	
14.2. UN proper shipping name:	AEROSOLS	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Hazard identification number:		Tunnel restriction code:	D

Inland water ways transport (ADN)

14.1. UN number or ID number:	1950	14.4. Packing group:	
14.2. UN proper shipping name:	AEROSOLS	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN number or ID number:	1950	14.4. Packing group:	
14.2. UN proper shipping name:	AEROSOLS	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	2.1	Environmental Hazardous Substance Name(s):	
Hazard label(s):	2.1		
EmS:	F-D, S-U	IMDG Code segregation group:	- None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	1950	14.4. Packing group:	
14.2. UN proper shipping name:	AEROSOLS, FLAMMABLE	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		

14.6. Special precautions for user

Safety Data Sheet

Green Markingspray

Replaces date: 14/01/2019

Revision date: 06/03/2023
Version: 2.0.0

None.

14.7. Maritime transport in bulk according to IMO instruments

Not included.

SECTION 15: Regulatory information

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

Special Provisions: Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.
Directive 2012/18/EU (Seveso), P3a FLAMMABLE AEROSOLS: Column 2: 150 (net) t,
Column 3: 500 (net) t.
Covered by:
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119457610-43	ethanol

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	06/03/2023	Bureau Veritas HSE / SJU	1-16

Abbreviations: DNEL: Derived No Effect Level
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

List of relevant H-statements

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure, may explode if heated.
H319 Causes serious eye irritation.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S
Address: Oldenborggade 25-31

Safety Data Sheet

Green Markingspray

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