SAFETY DATA SHEET

Prima® Green Marking Spray

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	12.04.2019

1.1. Product identifier

Product name	Prima Green Markingspray
Article no.	12230

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

Function	Description: Markingspray for animals.

1.3. Details of the supplier of the safety data sheet

Company Name	Neogen Corporation
Postal address	944 Nandino Blvd.
Postcode	40511
City	Lexington
State	Kentucky
Telephone number	800-621-8829
Email	inform@neogen.com
Website	animalsafety.neogen.com

1.4. Emergency telephone number

Emergency telephone numbers	Emergency Telephone: Chemtrec: 1 (800) 424-9300 Outside USA and Canada: +1 (703)527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222 Aerosol 1; H229 Eye Irrit. 2; H319

2.2. Label elements

Hazard pictograms (CLP)

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+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C / 122°F.

2.3. Other hazards

Other hazards	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH Reg. No.: 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	60 - 100 % vgt/vgt
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10 - 20 % vgt/vgt
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	Flam gas 1; H220 Press. Gas	10 - 30 % vgt/vgt
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Flam. Gas 1;H220 Press. Gas;	10 - 30 % vgt/vgt
Isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0	Flam gas 1; H220 Press. Gas;	10 - 30 % vgt/vgt

Substance comments	The substance ethanol, propan-2-ol is an organic solvent. See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If medical advice is needed, have product container or label at hand. 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.
Inhalation	Seek fresh air. Keep victim under observation. Get medical advice/attention if you feel unwell.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
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.
Ingestion	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Get medical advice/attention if you feel unwell.

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

General symptoms and effects	Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

Other information	No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Improper extinguishing media	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Flammable aerosol. CAUTION! Aerosol containers may explode. Avoid inhalation of vapour and fumes – seek fresh air. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	Product decomposes in fire conditions and toxic gases such as COx may be released.

5.3. Advice for firefighters

Other information	If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Avoid breathing and contact with skin and eyes.
Personal protection measures	Use personal protective equipment as required.

6.2. Environmental precautions

Environmental precautionary measures	Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Containment	Wipe up minor spills with a cloth.

6.4. Reference to other sections

Other instructions	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

Handling	See section 8 for information about precautions for use and personal protective equipment. Use the product under well-ventilated conditions, preferably outdoors. Smoking and naked flames prohibited.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Store frost-free. Keep out of reach of children.

Conditions for safe storage

Storage temperature	Value: 10 - 50 °C

7.3. Specific end use(s)

Specific use(s)	See application section 1.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Ethanol	CAS No.: 64-17-5	TWA (8h) : 1000 ppm TWA (8h) : 1920 mg/m³	
Propan-2-ol	CAS No.: 67-63-0	TWA (8h) : 400 ppm TWA (8h) : 999 mg/m³ **OEL short term value**	

		Value: 500 ppm **OEL short term value** Value: 1250 mg/m³
Butane	CAS No.: 106-97-8	TWA (8h) : 600 ppm TWA (8h) : 1450 mg/m³ **OEL short term value** Value: 750 ppm **OEL short term value** Value: 1810 mg/m³
Propane	CAS No.: 74-98-6	

DNEL / PNEC

Substance	Ethanol
DNEL	**Group:** Consumer **Route of exposure:** Long-term dermal (systemic) **Value:** 206 mg/kg **Group:** Professional **Route of exposure:** Long-term inhalation (systemic) **Value:** 950 mg/m³ **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/m³ **Group:** Consumer **Route of exposure:** Acute inhalation (local) **Value:** 950 mg/m³ **Group:** Professional **Route of exposure:** Acute inhalation (local) **Value:** 1900 mg/m³ **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/m³
PNEC	**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
Substance	Propan-2-ol
DNEL	**Group:** Professional **Route of exposure:** Lang sigt (gentages) - Dermal - Systemisk virkning **Value:** 888 mg/kg bw/day **Group:** Professional **Route of exposure:** Lang sigt (gentages) - Indånding - Systemisk virkning **Value:** 500 mg/m3 **Group:** Consumer **Route of exposure:** Lang sigt (gentages) - Oral - Systemisk virkning **Value:** 26 mg/kg bw/day **Group:** Consumer **Route of exposure:** Lang sigt (gentages) - Dermal - Systemisk virkning **Value:** 319 mg/kg bw/day **Group:** Consumer **Route of exposure:** Lang sigt (gentages) - Indånding - Systemisk virkning **Value:** 89 mg/m3
PNEC	**Route of exposure:** Soil **Exposure frequency:** Kort sigt (akut) **Value:** 28 mg/kg soil dw **Route of exposure:** Water **Exposure frequency:** Langsigtet, (gentages) **Value:** 140,9 mg/L **Reference:** Marine water Intermittent releases **Route of exposure:** Water **Exposure frequency:** Kort sigt (akut) **Value:** 140,9 mg/L **Reference:** Intermittent releases Marine water **Route of exposure:** Water **Exposure frequency:** Kort sigt (akut) **Value:** 140,9 mg/L **Reference:** Fresh water

8.2. Exposure controls

Safety signs

Eye / face protection

Eye protection	Wear safety goggles if there is a risk of eye splash.

Hand protection

Hand protection	Wear protective gloves made of nitrile rubber.

Skin protection

Skin protection (except hands)	Not required.

Respiratory protection

Respiratory protection	In case of insufficient ventilation, wear respiratory protective equipment with filter A.

Thermal hazards

Thermal hazards	Aerosol cans can explode.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Colour	Green
Odour	Alcohol
Solubility description	Immiscible with water

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire or explosion.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No risk of hazardous reactions.

10.4. Conditions to avoid

Conditions to avoid	Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Materials to avoid	None known.

10.6. Hazardous decomposition products

Hazardous decomposition products	No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Ethanol
Acute toxicity	**Effect tested:** LD50 **Route of exposure:** Oral **Value:** 10470 mg/kg bw **Animal test species:** Rat **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** 17100 mg/kg bw **Animal test species:** Rabbit **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 4 hour(s) **Value:** 124,7 mg/l **Animal test species:** Rat
Substance	Propan-2-ol
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Value:** > 10000 ppm **Animal test species:** Rat **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** 16,4 ml/kg bw **Animal test species:** Rabbit **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** 5,84 mg/kg bw **Animal test species:** Rat
Substance	Butane
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2 h **Value:** 1237 mg/L air **Animal test species:** Mouse
Substance	Propane

Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2 h **Value:** 1237 mg/L air **Animal test species:** Mouse
Substance	Isobutane
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2 h **Value:** 1237 mg/L air **Animal test species:** Mouse

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of skin corrosion / irritation, classification	May cause slight irritation.
Assessment of eye damage or irritation, classification	Irritating to eyes. Causes a burning sensation and tearing.
Assessment of respiratory sensitisation, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of skin sensitisation, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of germ cell mutagenicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of carcinogenicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of reproductive toxicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of specific target organ SE, classification	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.
Assessment of specific target organ toxicity RE, classification	Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.
Assessment of aspiration hazard, classification	Based on existing data, the classification criteria are deemed not to have been met.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Ethanol
Acute aquatic, fish	**Value:** 15300 mg/l **Effect dose concentration :** LC50 **Test duration:** 96 hour(s)

	Species: Pimephales promelas
Substance	Propan-2-ol
Acute aquatic, fish	**Value:** 10000 mg/L **Test duration:** 96 h **Method:** LC50
Substance	Butane
Acute aquatic, fish	**Value:** 24,11 - 147,54 mg/L **Test duration:** 96 h **Method:** LC50
Substance	Propane
Acute aquatic, fish	**Value:** 27,98 mg/L **Test duration:** 96 h **Method:** LC50
Substance	Isobutane
Acute aquatic, fish	**Value:** 24,11 - 147,54 mg/L **Test duration:** 96 h **Method:** LC50
Substance	Ethanol
Acute aquatic, algae	**Value:** 275 mg/l **Effect dose concentration :** EC50 **Test duration:** 96 hour(s) **Species:** Chlorella vulgaris
Substance	Butane
Acute aquatic, algae	**Value:** 7,71 - 19,37 mg/L **Test duration:** 96 h **Method:** EC50
Substance	Propane
Acute aquatic, algae	**Value:** 7,71 mg/L **Test duration:** 48 h **Method:** EC50
Substance	Isobutane
Acute aquatic, algae	**Value:** 7,71 - 19,37 mg/L **Test duration:** 96 h **Method:** EC50
Substance	Ethanol
Acute aquatic, Daphnia	**Value:** 12340 mg/l **Effect dose concentration :** EC50 **Test duration:** 48 hour(s) **Species:** Daphnia magna
Substance	Propan-2-ol
Acute aquatic, Daphnia	**Value:** > 10000 mg/L **Test duration:** 24 h **Method:** LC50

Substance	Butane
Acute aquatic, Daphnia	**Value:** 14,22 - 69,43 mg/L **Test duration:** 48 h **Method:** LC50
Substance	Propane
Acute aquatic, Daphnia	**Value:** 14,22 mg/L **Test duration:** LC50 **Method:** Daphnia
Substance	Isobutane
Acute aquatic, Daphnia	**Value:** 14,22 - 69,43 mg/L **Test duration:** 48 h **Method:** LC50

12.2. Persistence and degradability

Substance	Ethanol
Biodegradability	**Value:** 97 % **Method:** CO2 evolution **Test period:** 28 day(s)
Substance	Butane
Biodegradability	**Value:** 100 % **Method:** Biodegradation test, (predates, OECD test) **Test period:** 385,5 h
Substance	Propane
Biodegradability	**Value:** 100 % **Method:** Biodegradation test, predates, OECD test **Test period:** after 358,5 h
Substance	Isobutane
Biodegradability	**Value:** 100 % **Method:** Biodegradation test, predates, OECD test **Test period:** after 385,5 h
Persistence and degradability, comments	Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulable.

12.4. Mobility in soil

Mobility	Test data are not available.

12.5. Results of PBT and vPvB assessment

PBT assessment results	The mixture does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

Other adverse effects, comments	None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility with the specifications set out below.
EWC waste code	EWC waste code: 160504 gases in pressure containers (including halons) containing dangerous substances
National waste group	H/Z

SECTION 14: Transport information

Dangerous goods	Yes

14.1. UN number

ADR / RID / ADN	1950
IMDG	1950
ICAO / IATA	1950

14.2. UN proper shipping name

ADR / RID / ADN	AEROSOLS
IMDG	AEROSOLS
ICAO / IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID / ADN	2.1
IMDG	2.1
ICAO / IATA	2.1

14.4. Packing group

14.5. Environmental hazards

ADR / RID / ADN	-

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IMDG / ICAO / IATA Other information

EmS	F-D, S-U

SECTION 15: Regulatory information

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

Assessed restrictions	-

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Version	1