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Safety Data Sheet (S.D.S.)

Name	Product identifier	%	Classification (GHS-US)
butane	(CAS No) 106-97-8	1 - 5	Flam. Gas 1, H220 Compressed gas, H280
propane	(CAS No) 74-98-6	1 - 5	Flam. Gas 1, H220 Compressed gas, H280
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	(CAS No) 2008-39-1	0.326	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373
MCPD DMA Salt	(CAS No) 66423-09-4	0.164	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
2,4-DP DMA Salt	(CAS No) 104786-87-0	0.161	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen if necessary. Call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Take off contaminated clothing. Consult a doctor/medical service. Wash immediately with lots of water (15 minutes)/shower.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Get immediate medical advice/attention. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries	: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Toxic if inhaled.
Symptoms/injuries after inhalation	: Toxic if inhaled. Symptoms similar to those listed under ingestion. Headache. Dizziness. Unconsciousness.
Symptoms/injuries after skin contact	: Contact during a long period may cause light irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion	: Harmful if swallowed. Nausea. Vomiting. Abdominal pain.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Adapt extinguishing media to the environment. Dry chemical powder. Carbon dioxide. Foam. Water spray. Water fog.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Under fire conditions closed containers may rupture or explode.
Explosion hazard	: Contains gas under pressure; may explode if heated.
Reactivity	: Thermal decomposition may produce oxides of carbon and nitrogen. hydrogen chloride.

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. Take account of environmentally hazardous firefighting water.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate unnecessary personnel. Isolate from fire, if possible, without unnecessary risk. Stay upwind/keep distance from source.
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6.1.1. For non-emergency personnel

Protective equipment	: Do not enter without an appropriate protective equipment.
Emergency procedures	: Advice local authorities if considered necessary.

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6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Absorb and/or contain spill with inert material, then place in suitable container.

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill. Collect spillage.
Methods for cleaning up : Liquid spill: dam up with sand/earth. Carefully collect the spill/leftovers. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Do not puncture, incinerate or crush.
Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid breathing spray, mist, vapors. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Clean contaminated clothing. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.
Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse. Use good personal hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Do not puncture, incinerate or crush.
Storage conditions : Protect from freezing. Keep only in original container. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

butane (106-97-8)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
propane (74-98-6)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Use appropriate personal protective equipment when risk assessment indicates this is necessary.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Appearance : Aerosol. Foam.
Odor : No data available on odor
Odor threshold : No data available
pH : 9 - 10

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No flame extension with method ASTM D3065-72
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.008 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: 5%

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition may produce oxides of carbon and nitrogen. hydrogen chloride.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat. Open flame.

10.5. Incompatible materials

Strong oxidizing agents. alkalis. acids.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. HCl. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:gas: Toxic if inhaled.

2,4-DP DMA Salt (104786-87-0)

LD50 oral rat	567 mg/kg
LD50 dermal rat	> 2000 mg/kg

MCPD DMA Salt (66423-09-4)

LD50 oral rat	500 - 2000 mg/kg
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Skin corrosion/irritation : Not classified
pH: 9 - 10

Serious eye damage/irritation : Not classified
pH: 9 - 10

Respiratory or skin sensitization : Not classified.
Germ cell mutagenicity : Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause damage to organs (kidneys, liver).
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Toxic if inhaled. Symptoms similar to those listed under ingestion. Headache. Dizziness. Unconsciousness.
Symptoms/injuries after skin contact	: Contact during a long period may cause light irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion	: Harmful if swallowed. Nausea. Vomiting. Abdominal pain.
Likely routes of exposure	: Skin and eyes contact.;Inhalation;Ingestion.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not puncture, incinerate or crush.
Waste disposal recommendations	: Do not pierce or burn, even after use.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description	: UN1950 Aerosols (non-flammable, (each not exceeding 1 L capacity)), 2.2
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es) (DOT)	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT)	: 2.2 - Non-flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx)	: None
DOT Special Provisions (49 CFR 172.102)	:
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A
DOT Vessel Stowage Other	: 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

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Additional information

Other information : This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.150.

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : UN1950
 Proper Shipping Name (IMDG) : Aerosols, Non-flammable
 Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

Air transport

UN-No.(IATA) : UN1950
 Proper Shipping Name (IATA) : Aerosols, non-flammable
 Class (IATA) : 2.2 - Gases : Non-flammable, non-toxic

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

butane (106-97-8)

Not listed on SARA Section 313 (Specific toxic chemical listings)

propane (74-98-6)

Not listed on SARA Section 313 (Specific toxic chemical listings)

California Proposition 65 - This product does not contain a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any waterproof material.

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

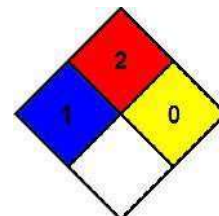
Full text of H-phrases:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Gas 1	Flammable gases Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed

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H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.