MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : REPORT™ EXTRA
Product Code(s) : None reported.
Product Use : Herbicide
Chemical Family : Mixture
Supplier’s name and address: Cheminova A/S
Manufacturer’s name and address: Cheminova, Inc.
One Park Drive, Suite 150
PO Box 110566
Research Triangle Park, NC, USA 27709
Chemtrec (800) 424-9300 (Within Continental U.S.); Chemtrec (703) 527-3887 (Outside U.S.).
For Medical Emergencies: (800) 303-6950

SECTION 2 - HAZARDS IDENTIFICATION

Classification : OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).
Emergency Overview : Hazardous classification: Acute Health Hazard

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. May cause irritation of respiratory tract.

Skin : May cause mild skin irritation. Symptoms may include redness, itching and swelling. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Eyes : May cause mild eye irritation. Inert particles may cause mechanical irritation of the eyes, including scratches.

Ingestion : May cause gastrointestinal discomfort.

Effects of long-term (chronic) exposure : None known or reported by the manufacturer.
Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.
Potential environmental effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See ECOLOGICAL INFORMATION (Section 12).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>Wt.%</th>
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</thead>
<tbody>
<tr>
<td>Chlorsulfuron technical</td>
<td>64902-72-3</td>
<td>60.00 - 100.00</td>
</tr>
<tr>
<td>Metsulfuron-methyl technical</td>
<td>74223-64-6</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Anionic surfactant</td>
<td>N/Av</td>
<td>1.00 - 5.00</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Inhalation : Immediately remove person to fresh air. If symptoms develop, seek medical attention.
Skin contact : Take off all contaminated clothing immediately. Immediately flush skin with gently flowing, running water for at least 20 minutes. If irritation persists, seek prompt medical attention. Wash contaminated clothing before re-use.
Eye contact: Flush eyes thoroughly with running water for at least 20 minutes, holding eyelids open to ensure complete flushing. Seek immediate medical attention/advice.

Ingestion: Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

Notes For Physician: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability:
- Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Fine dust dispersed in air may ignite.

Flammability classification (OSHA 29 CFR 1910.1200):
- Non-flammable.

Oxidizing properties:
- None known.

Explosion data: Sensitivity to mechanical impact / static discharge:
- Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media:
- Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment:
- Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning solid with water spray used for cooling purposes.

Hazardous combustion products:
- Carbon oxides; Sulphur oxides; nitrogen oxides (NOx); irritating fumes and smoke.

NFPA Rating:
- Health: 2  Flammability: 1  Instability: 0  Special Hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:
- Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions:
- Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Spill response/cleanup:
- Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled material with inert, non-combustible absorbent material, such as sand. Sweep up and shovel into suitable containers for disposal. For a water spill, confine the spill immediately with booms. Notify the appropriate authorities as required.

Prohibited materials:
- None known.

Special spill response procedures:
- In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

US CERCLA Reportable quantity (RQ): None.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures:
- This material is a harmful solid. Wear chemically resistant protective equipment during handling. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Keep away from heat and flame. Avoid contact with incompatible materials. Use caution when opening cap. Keep containers tightly closed when not in use. Wash thoroughly after handling.

Storage requirements:
- Store in a cool, dry, well ventilated area. Keep away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials:
- Strong oxidizing agents; Acids.
Special packaging materials: Always keep in containers made of the same materials as the supply container.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering measures**: Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL.

**Respiratory protection**: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

**Skin protection**: Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

**Eye / face protection**: Safety glasses with side-shields or chemical splash goggles. Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

**Other protective equipment**

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical state**: solid

**Appearance**: Off white solid. (granular)

**Odour**: Practically odorless.

**pH**: 5.5

**Boiling point**: N/Av

**Melting/Freezing point**: N/Av

**Vapour pressure (mmHg @ 20°C / 68°F)**: N/Av

**Vapour density (Air = 1)**: N/Av

**Volatile organic Compounds (VOC's)**: N/Av

**Flash point**: N/Av

**Flash point Method**: N/Av

**Lower flammable limit (% by vol.)**: N/Av

**Upper flammable limit (% by vol.)**: N/Av

**Flame Projection Length**: N/Av

### Section 10: Stability And Reactivity

**Stability and reactivity**: Stable under the recommended storage and handling conditions prescribed.

**Hazardous polymerization**: Will not occur.

**Conditions to avoid**: Keep this product away from heat, sparks, flame, and other sources of ignition (e.g. pilot lights, electric motors, static electricity).

**Materials To Avoid And Incompatibility**: Incompatible materials (see Section 7).

**Hazardous decomposition products**: None known, refer to hazardous combustion products in Section 5.
Target organs: Eyes, skin, respiratory system.

Routes of exposure:
- Inhalation: YES
- Skin Absorption: NO
- Skin & Eyes: YES
- Ingestion: YES

Toxicological data:
Based on a similar formulation:
- LD50 Oral (rat): 5000 mg/kg
- LD50 Dermal (rat): >5000 mg/kg
- LC50 Inhalation (rat): >2.15 mg/kg

Carcinogenic status:
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects:
Not expected to have other reproductive effects.

Teratogenicity:
Not expected to be a teratogen.

Mutagenicity:
Not expected to be mutagenic in humans.

Epidemiology:
Not available.

Sensitization to material:
Not expected to be a skin or respiratory sensitizer.

Synergistic materials:
Not available.

Irritancy:
May cause eye and skin irritation. May cause irritation to upper respiratory system.

Other important hazards:
None known.

Conditions aggravated by overexposure:
Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
The active ingredients are: Metsulfuron-methyl Technical; Chlorsulfuron Technical.
The toxicity of the active ingredients to wildlife species is measured to be:

Metsulfuron-methyl Technical:
- Fish - 96-hr LC50, Rainbow Trout (Salmo gairdneri) = >150 mg/l
- Invertebrates - 48-hr EC50, Daphnids (Daphnia magna) = >150 mg/l
- Bees - LD50, oral, Bees (Apis mellifera) = >25 µg/bee
- Plants - 14-day EC50, Swollen Duckweed (Lemna gibba) = 0.36 µg/l
- EC50, Green Algae (Pseudokirchneriella subcapitata) = 0.045 mg/l

Chlorsulfuron Technical:
- Fish - 96-hr LC50, Rainbow Trout (Salmo gairdneri) = >250 mg/l
- Invertebrates - 48-hr EC50, Daphnids (Daphnia magna) = >370 mg/l
- Bees - LD50, oral, Bees (Apis mellifera) = 25 µg/bee
- Plants - EC50, Duckweed (Lemna minor) = 0.35 µg/l
- EC50, Green Algae (Pseudokirchneriella subcapitata) = 0.055 µg/l

Mobility:
The active ingredients are: Metsulfuron-methyl Technical; Chlorsulfuron Technical.
Under normal conditions, the active ingredients are mobile in the environment.

Persistence:
The active ingredients are: Metsulfuron-methyl Technical; Chlorsulfuron Technical.
The active ingredients are persistent in the environment.

Bioaccumulation potential:
The active ingredients are: Metsulfuron-methyl Technical; Chlorsulfuron Technical.
The active ingredients are not expected to bioaccumulate.

Other Adverse Environmental effects:
This product is an herbicide. The active ingredients are considered to be highly toxic to many plants, and non-toxic to fish, aquatic invertebrates, soil micro- and macroorganisms, birds, mammals and insects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal:
Handle waste according to recommendations in Section 7.

Methods of Disposal:
Do not contaminate water, foodstuffs, feed or seed by storage or disposal. For disposable containers, triple rinse (or equivalent) containers and add rinse material to disposal tank. Follow any additional local, state or federal requirements for cleaning containers prior to disposal. Make the empty, rinsed container unsuitable for further use by puncturing. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA:
If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.
SECTION 14: TRANSPORT INFORMATION

<table>
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<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>Shipping Name</th>
<th>Class</th>
<th>Packing Group</th>
<th>Label</th>
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<td>None</td>
<td>Not regulated</td>
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<td>49CFR/DOT Additional information</td>
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SECTION 15 - REGULATORY INFORMATION

US Federal Information:
OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Chlorsulfuron

US State Right to Know Laws:
California Proposition 65: This product contains a chemical known to the State of California to cause developmental harm. This product contains: Chlorsulfuron.

International Information:
Not available.

SECTION 16 - OTHER INFORMATION

HMIS Rating

<table>
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<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
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<tbody>
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</table>

Legend:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System  

References:  
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2008.  
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2009 (Chempendium, HSDB, RTECs).  
4. Material Safety Data Sheet from manufacturer.  

Prepared for:  
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One Park Drive, Suite 150  
Research Triangle Park, NC, USA, 27709  
Please direct all enquiries to Cheminova.

Prepared by:  
ICC The Compliance Center Inc.  
http://www.thecompliancecenter.com

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Revision Information: (M)SDS sections updated: All

END OF DOCUMENT