

# SAFETY DATA SHEET

Issue Date 30-Sep-2021 Revision Date 30-Sep-2021 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Durus

Other means of identification

Product Code 83100-62-83979 Synonyms None

Registration Number(s) 83100-62-83979

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide

Uses advised against No information available

# Details of the supplier of the safety data sheet

**Manufacturer Address** 

Rotam North America, Inc. 4900 Koger Blvd. Suite# 220 Greensboro, NC 27407 Website: msds@rotam.com

Emergency telephone number

Company Phone Number 1-866-927-6826 (toll free)

1-336-346-8802

Emergency Telephone CHEMTREC: 800-424-9300

CHEMTREC: 703-527-3887

POISON CONTROL CENTER: 800-222-1222

# 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Serious eye damage/eye irritation                | Category 2B |
|--|-------------|
| Skin sensitization                               | Category 1  |
| Specific target organ toxicity (single exposure) | Category 3  |

**Emergency Overview** 

#### Label elements

# Warning

#### **Hazard statements**

Causes eye irritation May cause an allergic skin reaction May cause respiratory irritation



Appearance opaque Physical state liquid Odor sweet

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

May be harmful if swallowed. Causes mild skin irritation. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

#### Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Substance</u>

Not applicable

#### <u>Mixture</u>

| Chemical Name       | CAS No      | Weight-% |
|---------------------|-------------|----------|
| Other ingredients * | Proprietary | 15 - 40  |
| Acetochlor          | 34256-82-1  | 31.0     |
| Atrazine            | 1912-24-9   | 21.0     |
| Dichlormid *        | 37764-25-3  | 3 - 7    |
| Mesotrione          | 104206-82-8 | 3.3      |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

General advice Call a poison control center or doctor for treatment advice. Have the product containers or

label with you when calling a poison control center or doctor, or going for treatment.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control

center or doctor for treatment advice.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Call a poison control center or doctor for treatment advice.

83100-62 - Rotam Acetochlor 31% + Atrazine 21% + Mesotrione 3.3% + Dichlormid

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**Inhalation** Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately. Call a poison control center or

doctor for treatment advice.

Ingestion Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not

induce vomiting without medical advice. Never give anything by mouth to an unconscious

person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation. Coughing and/ or

wheezing. May cause allergic skin reaction.

# Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Unsuitable extinguishing media None.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Hydrogen chloride.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

**For emergency responders**Use personal protection recommended in Section 8. Ventilate the area.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

# Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up

and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling**Use personal protective equipment as required. Wash contaminated clothing before reuse.

Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled

containers.

**Packaging materials** Do not reuse container.

**Incompatible materials** Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV                          | OSHA PEL | NIOSH REL/IDLH           |
|---------------|------------------------------------|----------|--------------------------|
| Atrazine      | TWA: 2 mg/m <sup>3</sup> inhalable | -        | TWA: 5 mg/m <sup>3</sup> |
| 1912-24-9     | particulate matter                 |          | _                        |

NIOSH IDLH Immediately Dangerous to Life or Health

#### **Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or

boots.

Respiratory protection Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded

or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance opaque Odor sweet

Color Off-white Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 3.61 solution (1 %)

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

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Seta Closed Cup

@ 25 °C

@ 40 °C

> 100 °C / > 212 °F Flash point

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available

~18 mmHg Vapor pressure

Vapor density No information available

Relative density 1.11 g/mL Water solubility dispersible

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available

Kinematic viscosity > 200 mm2/s

**Dynamic viscosity** No information available

**Explosive properties** Not an explosive **Oxidizing properties** Not applicable

**Other Information** 

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Density** No information available No information available **Bulk density** 

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to avoid** 

Elevated Temperature. Storage near to reactive materials.

Incompatible materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** Acute Oral LD50 (rat): 5000 mg/kg

Acute Dermal LD50 (rabbit): 5000 mg/kg Eye Irritation (rabbit): Moderate irritant. Skin Irritation (rabbit): Moderate irritant. Inhalation LC50 (rat): >2.15 mg/L (4 HR) Skin Sensitization (guinea pig): Sensitizer

Inhalation May cause irritation of respiratory tract.

Eye contact Moderately irritating to the eyes.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause irritation.

Ingestion Based on available data, the classification criteria are not met.

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| Chemical Name             | Oral LD50                                 | Dermal LD50  | Inhalation LC50                    |
|---------------------------|---|--|------------------------------------|
| Other ingredients         | > 90 mL/kg ( Rat )                        | -  | -                                  |
| Acetochlor<br>34256-82-1  | = 763 mg/kg (Rat)                         | = 3667 mg/kg ( Rabbit )  | = 3.99 mg/L (Rat)4 h               |
| Atrazine<br>1912-24-9     | = 672 mg/kg (Rat)                         | = 7500 mg/kg (Rabbit) > 2000<br>mg/kg (Rat) > 5000 mg/kg (Rat<br>) | = 5200 mg/m³ (Rat) 4 h             |
| Dichlormid<br>37764-25-3  | = 2.146 mg/kg (Rat) = 2146<br>mg/kg (Rat) | = 2.04 mg/kg (Rat) > 5 g/kg (<br>Rabbit)                           | = 5500 mg/m <sup>3</sup> (Rat) 1 h |
| Mesotrione<br>104206-82-8 | > 2000 mg/kg (Rat)                        | > 2000 mg/kg (Rat)   | -                                  |

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. May cause an allergic skin reaction. May

cause skin irritation. Coughing and/ or wheezing.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met. **Carcinogenicity**Based on available data, the classification criteria are not met.

| Chemical Name | ACGIH | IARC    | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Atrazine      | A3    | Group 3 | -   | -    |
| 1912-24-9     |       |         |     |      |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Based on available data, the classification criteria are not met.

May cause disorder and damage to the. Respiratory system.

Based on available data, the classification criteria are not met.

**Chronic toxicity** May cause adverse liver effects.

Target Organ EffectsCentral nervous system, Eyes, liver, Respiratory system, Skin.Aspiration hazardBased on available data, the classification criteria are not met.

# Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Refer to product information above.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

| Chemical Name | Algae/aquatic plants               | Fish                                 | Crustacea                          |
|---------------|------------------------------------|--------------------------------------|------------------------------------|
| Atrazine      | 0.03: 72 h Desmodesmus             | 4.5 - 11: 96 h Oncorhynchus mykiss   | 5.2 - 8.1: 48 h Daphnia magna mg/L |
| 1912-24-9     | subspicatus mg/L EC50 0.072: 72 h  | mg/L LC50 3 - 6.75: 96 h             | EC50 Static                        |
|               | Desmodesmus subspicatus mg/L       | Oncorhynchus mykiss mg/L LC50        |                                    |
|               | EC50 static 0.2: 72 h              | static 8: 96 h Lepomis macrochirus   |                                    |
|               | Pseudokirchneriella subcapitata    | mg/L LC50 flow-through 23.999: 96    |                                    |
|               | mg/L EC50 0.004: 96 h              | h Lepomis macrochirus mg/L LC50      |                                    |
|               | Pseudokirchneriella subcapitata    | semi-static 4.1: 96 h Pimephales     |                                    |
|               | mg/L EC50 static 0.0096 - 0.07: 72 | promelas mg/L LC50 static 4.3: 96 h  |                                    |
|               | h Pseudokirchneriella subcapitata  | Poecilia reticulata mg/L LC50 static |                                    |
|               | mg/L EC50 static 0.0929: 72 h      | 3 - 6.75: 96 h Oncorhynchus mykiss   |                                    |
|               | Pseudokirchneriella subcapitata    | mg/L LC50 semi-static 16: 96 h       |                                    |
|               | mg/L EC50 semi-static 0.014 -      | Lepomis macrochirus ma/L LC50        |                                    |

Persistence and degradability

Not readily biodegradable.

**Bioaccumulation** 

Bioaccumulative potential.

| Chemical Name         | Partition coefficient |
|-----------------------|-----------------------|
| Atrazine<br>1912-24-9 | 2.6                   |

#### Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal

law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on

proper disposal of waste product.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations. Consult product label for additional information. Do not reuse container.

14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

**Special Provisions** A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Acetochlor), 9, III

<u>IMDG</u>

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class9Packing GroupIIIEmS-NoF-A, S-FSpecial Provisions274, 335

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Acetochlor), 9, III

# 15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name        | SARA 313 - Threshold Values % |  |
|----------------------|-------------------------------|--|
| Atrazine - 1912-24-9 | 1.0                           |  |

#### SARA 311/312 Hazard Categories

| Acute health hazard               | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name           | California Proposition 65 |  |
|-------------------------|---------------------------|--|
| Acetochlor - 34256-82-1 | Carcinogen                |  |
| Atrazine - 1912-24-9    | Developmental             |  |
|                         | Female Reproductive       |  |

### U.S. State Right-to-Know Regulations

| Chemical Name         | New Jersey | Massachusetts | Pennsylvania |
|-----------------------|------------|---------------|--------------|
| Other ingredients     | -          | -             | X            |
| Atrazine<br>1912-24-9 | X          | X             | X            |

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** 83100-62

#### **EPA Statement**

This chemical is a pesticide product registered by the 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. Following is the hazard information as required on the pesticide label:

#### Difference between SDS and EPA Pesticide label

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, shoes plus socks and appropriate chemical-resistant/waterproof gloves. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

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**Revision Note** 

No information available

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

01Oct2021