

Safety Data Sheet

Issue Date: 08-Feb-2018

Revision Date: 12-Mar-2020

Version 2

1. IDENTIFICATION

Product Identifier

Product Name Oracle® Advanced Herbicide

Other means of identification

SDS # GCI-020

Registration Number(s) EPA Reg. No. 93182-24
UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use Souble liquid. Mixes with water. For use in agriculture weed control. Refer to product label for further details.

Details of the supplier of the safety data sheet

Manufacturer Address

GHARDA CHEMICALS INTERNATIONAL INC.
760 Newtown-Yardley Road
Suite 110
Newtown, PA USA 18940
Website: www.ghardausa.com
For further information contact: 1 (215) 968-9474

Emergency Telephone Number

Emergency Telephone (24 hr) MEDICAL EMERGENCY (24 hr): PROPHARMA (866)-359-5660
TRANSPORTATION OR SPILL (24 hr): CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Clear yellow to pale brown liquid

Physical state Liquid

Odor Faint Aromatic

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard statements

Harmful if swallowed
Causes serious eye damage

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Dicamba	1918-00-9	58.8

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. DO NOT give any liquid to the person. DO NOT induce vomiting unless told to do so by the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms	Causes serious eye damage. Harmful if swallowed.
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically. For ingestion, lavage stomach with tap water. Instill 30 gm activated charcoal in 3-4 oz. of water. Catharsis with 15 gm sulfate in 6-8 oz. water.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire

Dry chemical. Carbon dioxide (CO₂). Water spray. Regular foam.

Large Fire

Water spray or fog. Regular foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Move containers from fire area if you can do so without risk.

For fires involving tanks: Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Sulfur oxides.

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. If tank, rail car or tank truck is involved in a fire, isolate for 800 meters (1/2 mile) in directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Do not touch or walk through spilled material. Ensure adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions**Environmental precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

As an immediate precautionary measures, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. For major spills or leaks call emergency response (Section 1) for instructions and cleanup. For dry spills or leaks use a clean shovel and place material into a clean, dry disposal container and cover. Remove disposal containers from the site for later disposal according to state and local regulations. For minor liquid spills or leaks, stop leak if you can do it without risk by diking ahead of the spill to minimize spreading. Prevent entry into waterways, sewers, basements or confined areas. Take up with sand, Earth, vermiculite, diatomaceous earth or other non-combustible absorbent material and place into a clean container for later disposal. Remove disposal containers from the site for later disposal according to state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from direct sunlight. Keep away from foodstuffs, beverages, and feed. Store between 0°C and 30 °C.

Incompatible Materials Acids. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly sealed goggles.

Skin and Body Protection Wear protective gloves and protective clothing. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Respiratory Protection Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Faint Aromatic
Appearance	Clear yellow to pale brown liquid	Odor Threshold	Not determined
Color	yellow to pale brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.5-8.5 (1% w/w @ 25 °C)	
Melting point / freezing point	Not determined	
Boiling Point / Boiling Range	100 °C / 212 °F	
Flash Point	> 100 °C / 212 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		

Upper Flammability Limit	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	23.3 kpa @ 20°C (for solvent)	@ 20°C (68°F)
Vapor Density	>1.0	(Air=1)
Relative Density	Not determined	
Water Solubility	Soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	11.9 cSt (centistokes) @ 25 °C	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Other Information

Density 1.2091 g/ml (10.1 lbs/gal) @ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Acids. Bases.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact Causes serious eye damage.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dicamba 1918-00-9	= 1039 mg/kg (Rat)	> 2 g/kg (Rabbit) > 1 g/kg (Rat) = 1716 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Did not cause cancer in long-term animal studies. There were no treatment related increases in tumors at dietary levels up to 2500 ppm (rats and dogs) and 3000 ppm (mice).

STOT - single exposure Reported health effects following dicamba ingestion include hyperthermia, metabolic acidosis, renal failure and increases in certain liver enzymes (NPIC Data).

STOT - repeated exposure Dicamba is distributed in all tissues including the liver, kidney, blood, muscle and fat, and, excreted in the urine. (NPIC Data).

Numerical measures of toxicity

ATEmix (oral) 3500 mg/kg (rat)
ATEmix (dermal) >2000 mg/kg (rat)
ATEmix (inhalation-dust/mist) >5.2 mg/l (rat)

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT When shipped in boxes containing (2) 2.5 gallon bottles, this product is NOT REGULATED. When shipped in 265 gallon totes, the following basic description applies:

UN/ID No UN3082
Proper Shipping Name Environmentally Hazardous Substances, Liquid, N.O.S. (Dicamba DGA)
Hazard Class 9
Packing Group III
Marine Pollutant Yes.

IATA
UN/ID No UN3082
Proper Shipping Name Environmentally Hazardous Substances, Liquid, N.O.S. (Dicamba DGA)
Hazard Class 9
Packing Group III
Marine Pollutant Yes

IMDG
UN/ID No UN3082
Proper Shipping Name Environmentally Hazardous Substances, Liquid, N.O.S. (Dicamba DGA)
Hazard Class 9
Packing Group III
Marine Pollutant Yes

TDG
Special Provisions SOR/2008-34 (AMENDMENT 6)

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Dicamba	X		X	Present		Present	X	X

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

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Dicamba 1918-00-9	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

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	CAS No.	Weight-%	SARA 313 - Threshold Values %
Dicamba - 1918-00-9	1918-00-9	58.8	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dicamba	1000 lb			X

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dicamba 1918-00-9	X	X	X

EPA Pesticide Registration Number EPA Reg. No. 93182-24

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:

EPA Pesticide Label

SIGNAL WORD: CAUTION! Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long sleeved shirt, long pants, shoes, socks and chemical resistant gloves (such as or made out of any waterproof material)

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Danger
Acute toxicity - Oral	Harmful if swallowed	NA
Acute toxicity – Dermal	Harmful if absorbed through skin	NA
Serious eye damage/eye irritation	Causes moderate eye irritation	Causes serious eye damage

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical hazards	Personal Protection
	1	0	0	Not determined

Issue Date: 08-Feb-2018
Revision Date: 12-Mar-2020
Revision Note: Updated transport information

Disclaimer

The information provided in this 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