# **AMVAC**

# SAFETY DATA SHEET

## 1. Identification

Product identifier IMPACT® Herbicide

Other means of identification

SDS number 323

**Product registration** 

Su

5481-524

number

Synonyms Topramezone SC Herbicide

Recommended use Herbicide. For postemergence weed control in all types of field corn, popcorn and seed corn.

**Recommended restrictions** Keep out of the Reach of Children!

EPA Registration number EPA: 5481-524

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name AMVAC Chemical Corporation

Address 4685 MacArthur Court

**Suite 1200** 

Newport Beach, CA 92660

**Telephone** AMVAC Chemical Corp 949-260-1200

AMVAC Chemical Corp 949-260-6270(FAX)

Website www.Amvac-Chemical.com
E-mail CustServ@Amvac-Chemical.com

Emergency phone number Medical 888-681-4261

CHEMTREC® 800-424-9300

(USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Reproductive toxicity Category 2

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** 

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

**Precautionary statement** 

Prevention

P202 Do not handle until all safety precautions have been read and understood. P272 Contaminated work clothing should not be allowed out of the workplace.

P281 Use personal protective equipment as required.

P273 Avoid release to the environment.

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Response

If on skin: Wash with plenty of water. P302 + P350

If inhaled: Remove person to fresh air and keep comfortable for breathing. P304 + P340

If exposed or concerned: Get medical advice/attention. P308 + P313 If skin irritation or rash occurs: Get medical advice/attention. P333 + P313

Wash contaminated clothing before reuse. P363

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Store locked up. P405

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

This 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information. including directions for use.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	<u></u>
Topramezone		210631-68-8	29.7% (336 g/L)
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Inert Ingredients		N/A	70.3

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important May cause an allergic skin reaction. Dermatitis. Rash.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed **General information** 

media

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash

contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Not available.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

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

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

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SDS US

## Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised

if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent product from entering drains. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form	
TRADE SECRET	TWA	10 mg/m3	Aerosol.	

**Biological limit values** 

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

General ventilation normally adequate. Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Long-sleeved shirt and long pants or coveralls, socks and closed toe shoes are required.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection Not available.

Thermal hazards General hygiene

considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

**Form** Suspension concentrate. Color Grey to beige opaque

Odor Faint odor **Odor threshold** Not available

3 - 3.5 (1% dispersion @ 20 C)

Melting point/freezing point 24.8 °F (-4 °C) 212 °F (100 °C) Initial boiling point and boiling

range

Not available. Flash point 1 as water **Evaporation rate** 

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure Equal to water evaporation

Vapor density Same as water Not available. Relative density

Solubility(ies)

Dispersible Solubility (water) Solubility (solvents) Not available **Partition coefficient** 1.52 (a.i.)

(n-octanol/water)

700 °F (371 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Bulk density** 9.43 lb/gal

1.03 g/cm3 estimated Density

70 % Percent volatile

1.13 @ 20°C Specific gravity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

Dermatitis, Rash.

# Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

Components **Species Test Results** 

Topramezone (CAS 210631-68-8)

**Acute Dermal** 

LD50 Rat > 2000 mg/kg

Inhalation

LC50 Rat > 5.4 mg/l

Oral

LD50 Rat > 2000 mg/kg

Material name: IMPACT® Herbicide

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eve damage/eve

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

May cause an allergic skin reaction. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not carcinogenic.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child. Reproductive effects in the rat were seen in

both parents and offspring with NOAEL established at 0.4 mg/kg/day.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

Chronic effects Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Components		Species	Test Results		
Topramezone (CAS 210631-68-8)					
Aquatic					
Algae	EC50	Pseudokirchnerella subcapitata	67.7 mg/l, 96 hr		
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hr		
Fish	LC50	Oncorhynchus mykiss	> 100 mg/l, 96 hr nominal concentration		
Other	EC50	Lemna gibba (fronds)	0.125 mg/l, 7 days		

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1.52 Topramezone

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal methods/information). Dispose of container and

residues in accordance with all applicable regulations.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

907 Version #: 4.0 Revision date: Nov-29-2018 Issue date: Sep-01-2015

## 14. Transport information

#### DOT

UN3082 **UN number** 

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Topramezone 29.7%)

Transport hazard class(es)

Class 9 Subsidiary risk Label(s) 9 Ш **Packing group** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, IB3, T4, TP1, TP29 Special provisions

Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241

IATA

**UN number** UN3082

**UN** proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Topramezone 29.7%)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Packing group Ш **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Read safety instructions, SDS and emergency procedures before handling.

#### **IMDG**

**UN number** UN3082

Environmentally hazardous substances, liquid, n.o.s. (Topramezone 29.7%), MARINE **UN proper shipping name** 

**POLLUTANT** 

Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) Ш **Packing group Environmental hazards** 

Marine pollutant

Yes

Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

**DOT; IATA; IMDG** 



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#### Marine pollutant



**General information** 

This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 400 kg (880 lb) or less). When shipped by vessel or in bulk packaging this product is regulated according to the data shown. IMDG Regulated Marine Pollutant.

## 15. Regulatory information

## **US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

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 (SDS), 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.

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if swallowed or absorbed through skin Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after handling.

## **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply this product through any type of irrigation system. Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsate.

## **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

**Classified hazard** 

Respiratory or skin sensitization

categories Reproductive toxicity

SARA 313 (TRI reporting)

Not regulated.

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#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## **International Inventories**

On inventory (yes/no)\* Country(s) or region Inventory name Canada Domestic Substances List (DSL) No Canada Non-Domestic Substances List (NDSL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

# 16. Other information, including date of preparation or last revision

Sep-01-2015 Issue date Nov-29-2018 **Revision date** 

Version # 4.0

HMIS® ratings Health: 2\*

Flammability: 0

Physical hazard: 0

Health: 2 NFPA ratings

> Flammability: 0 Instability: 0

Disclaimer

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**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

Material name: IMPACT® Herbicide SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).