# SAFETY DATA SHEET

## 1. Identification

**Product identifier IMPACTZ** 

Other means of identification

SDS number 526

**Product registration** 

number

5481-612

Recommended use Herbicide.

Recommended restrictions No other uses are advised.

Keep out of the Reach of Children!

EPA: 5481-612 **EPA Registration number** 

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**AMVAC Chemical Corporation** Company name

4685 MacArthur Court **Address** 

**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 CustServ@Amvac-Chemical.com E-mail

**Emergency phone number** Medical 888-681-4261 800-424-9300

**CHEMTREC®** 

(USA+Canada)

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

USA)

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Sensitization, skin Category 1A Reproductive toxicity Category 2 Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment, Category 2

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. **Hazard statement** 

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling. Avoid release to the environment.

**Response** If exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Take off contaminated clothing and wash it before reuse.

Wash hands after handling.

Collect spillage.

Storage Store locked up.

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

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.

Restricted Use is due to ground and surface water concerns. See label for applicable

precautionary statements and instructions.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Atrazine	1-Chloro-3-(ethylamino)-5-(isopropylamin o)-2,4,6-triazine	1912-24-9	42.6
Atrazine related compounds		N/A	1.11
Topramezone		210631-68-8	2.85
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Undisclosed Ingredients		N/A	53.44

#### 4. First-aid measures

**Inhalation** Move 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 CENTER or doctor/physician if

you feel unwell.

**Skin contact** Remove contaminated clothing. Wash off with soap and water. Get medical attention if irritation

develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Do

not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is

unconscious or is having convulsions.

Most important symptoms/effects, acute and

delayed

media

Indication of immediate medical attention and special treatment needed

Prolonged exposure may cause chronic effects.

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

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

(show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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.

#### 6. 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. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment.

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

Components

**US. ACGIH Threshold Limit Values** 

•	**		
Atrazine (CAS 1912-24-9)	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	
Atrazine (CAS 1912-24-9)	TWA	5 mg/m3	

**Biological limit values** 

Type

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

Value

**Form** 

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Other Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

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.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Suspension concentrate. Slightly viscous liquid.

Color White.

Odor Pleasant. Faint odor

Odor threshold Not available. pH 4.94 (neat) Melting point/freezing point  $< 32 \,^{\circ}\text{F} (< 0 \,^{\circ}\text{C})$ Initial boiling point and boiling  $> 212 \,^{\circ}\text{F} (> 100 \,^{\circ}\text{C})$ 

range

Flash point  $> 212 \,^{\circ}\text{F} (> 100 \,^{\circ}\text{C})$ 

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - lower (%) Not available.

Not available.

Vapor pressure 9.25E-03 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

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

Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 1.12 g/ml (@ 20°C) **Explosive properties** Not explosive.

Flammability class Combustible IIIB estimated

Oxidizing properties Not oxidizing. Particle size  $< 4 \mu m$ 

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

Emits hazardous fumes and smoke of unknown composition when heated to decomposition or

burned.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact**Not an eye irritant **Ingestion**Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

**Acute toxicity** May be harmful if swallowed.

Product Species Test Results

**IMPACTZ** 

Acute Dermal

Liquid

LD50 Rat > 2000 mg/kg

Inhalation

Mist

LC50 Rat > 4.1 mg/l, 4 hr

**Oral** Liquid

LD50 Rat 2000 mg/kg (female)

Skin corrosion/irritation Non irritating to skin.

Serious eye damage/eye Not an eye irritant

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Atrazine (CAS 1912-24-9) 3 Not classifiable as to carcinogenicity to humans.

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.

Specific target organ toxicity -

single exposure

No specific target organ toxicity is expected after single exposure.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Components **Species Test Results** Atrazine (CAS 1912-24-9) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 28.8 - 46.3 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 3.5 - 5.7 mg/l, 96 hours (Oncorhynchus mykiss) Topramezone (CAS 210631-68-8) Aquatic Crustacea EC50 Daphnia magna > 100 mg/l, 48 hrFish LC50 Oncorhynchus mykiss > 100 mg/l, 96 hr nominal concentration

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Atrazine 2.61 Topramezone 1.52

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. Dispose of

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

Local disposal regulations

Dispose in accordance with all applicable 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

Dispose of in accordance with all applicable regulations. 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).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with all applicable regulations.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

Read safety instructions, SDS and emergency procedures before handling.

#### **IMDG**

Not regulated as dangerous goods.

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

Not established.

## 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 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. A portion of the hazard information required on the pesticide label, including the EPA mandated signal word, is reproduced below. The pesticide label also includes other important information, including restrictions and directions for use.

## HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet..

## **ENVIRONMENTAL HAZARDS**

This product contains the active ingredients atrazine and topramezone. Atrazine can move (seep or leach) through soil and can enter ground and surface water which may be used as drinking water. Atrazine has been found in ground and surface water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

## 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 categories

Acute toxicity (any route of exposure) Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

**Chemical name** CAS number % by wt. Atrazine 1912-24-9 42.6

#### Other federal regulations

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

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



WARNING: This product can expose you to Atrazine, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Developmental toxin

Atrazine (CAS 1912-24-9) Listed: July 15, 2016 California Proposition 65 - CRT: Listed date/Female reproductive toxin Atrazine (CAS 1912-24-9) Listed: July 15, 2016

#### International Inventories

Country(s) or region Inventory name On inventory (yes/no)\*

No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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).

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

Feb-01-2017 Issue date **Revision date** Sep-04-2018

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

Federal Insecticide, Fungicide, and Rodenticide Act FIFRA:

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

Superfund Amendments and Reauthorization Act SARA:

Toxic Substances Control Act TSCA: DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 3.0

**HMIS®** ratings Health: 2\*

Flammability: 0 Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 0 Instability: 0

Material name: IMPACTZ SDS US

1673 Version #: 3.0 Revision date: Sep-04-2018 Issue date: Feb-01-2017

#### **Disclaimer**

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NFPA is a trademark of the National Fire Protection Association, Inc.

#### **Revision information**

Hazard(s) identification: Hazard statement Hazard(s) identification: Supplemental information Toxicological Information: Toxicological Data Regulatory information: California Proposition 65 Regulatory information: US state regulations

Other information, including date of preparation or last revision: Disclaimer

GHS: Classification

Material name: IMPACTZ SDS US

1673 Version #: 3.0 Revision date: Sep-04-2018 Issue date: Feb-01-2017