

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name DACTHAL W-75 Herbicide

Version # 01

 Issue date
 07-16-2015

 CAS #
 Mixture

 MSDS Number
 291

**EPA Registration number** EPA: 5481-490; 5481-491

**Pest Control Products Act** 

(Canada)

WHMIS: 8963

Manufacturer information AMVAC Chemical Corporation 4100 E Washington Blvd

Los Angeles, CA 90023 USA CustServ@Amvac-Chemical.com

www.Amvac-Chemical.com

AMVAC Chemical Corp 323-264-3910 AMVAC Chemical Corp 323-268-1028 (FAX) CHEMTREC® (Outside USA) +1-703-527-3887 CHEMTREC® (USA+Canada) 800-424-9300

Medical 888-681-4261 Product Use 888-462-6822

#### 2. Hazards Identification

Emergency overview CAUTION

Keep out of Reach of Children.

Harmful if swallowed.

Avoid contact with the eyes and skin.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Contact with eyes may cause irritation. Avoid contact with eyes.

**Skin** May cause skin irritation. Avoid contact with the skin.

**Inhalation** Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Prolonged

inhalation may be harmful.

**Ingestion** Irritating. May cause nausea, stomach pain and vomiting.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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Potential environmental effects May cause long-term adverse effects in the environment.

### 3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent	
DCPA (Dimethyl tetracloroterephthalate)	1861-32-1	75	
Additional components	CAS#	Percent	
Inert Ingredients (May contain clay which may contain >0.1% crystalline silica)	N/A	25	

## 4. First Aid Measures

First aid procedures

**Inhalation** Avoid breathing dust. Move to fresh air. Get medical attention, if needed.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty

of water. Get medical attention if irritation develops and persists.

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MSDS CANADA

Eye contact Flush eyes immediately with large amounts of water. If a contact lens is present, DO NOT delay

irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation

develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth thoroughly. Have person sip a

glass of water if able to swallow. 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.

Notes to physician Treat symptomatically.

General advice If you feel unwell, seek medical advice (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

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

**Protection of firefighters** 

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

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

**Explosion data** 

Sensitivity to static

discharge

None known.

Sensitivity to mechanical

impact

None known.

**Hazardous combustion** 

products

This product will emit hazardous fumes and smoke of unknown composition when heated

excessively or burned.

# 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.

**Environmental precautions** 

Do not contaminate water.

**Methods for containment** 

Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or

confined areas.

Methods for cleaning up

Wear appropriate protective equipment and clothing during clean-up. Should not be released into the environment. Dike far ahead of spill for later disposal. Avoid the generation of dusts during clean-up. Clean up in accordance with all applicable regulations. For waste disposal, see section

13 of the SDS.

**Other information** Clean up in accordance with all applicable regulations.

7. Handling and Storage

**Handling** Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes, skin,

and clothing. When using do not eat or drink. Do not use in areas without adequate ventilation.

Wash thoroughly after handling. Avoid release to the environment.

Storage Store locked up. Store in a cool, dry place out of direct sunlight. Store in a closed container away

from incompatible materials. Keep out of the reach of children.

# 8. Exposure Controls / Personal Protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Additional components	Туре	Value	Form
Hexachlorobenzene (CAS 118-74-1)	TWA	0.002 mg/m3	

Additional components	Туре	Value	Form
ree respirable Crystalline quartz) Silica CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Sch	nedule 1, Table 2)	
Additional components	Туре	Value	Form
Hexachlorobenzene	TWA	0.002 mg/m3	
CAS 118-74-1)		_	
Nuisance Dust	TWA	3 mg/m3	Respirable particles.
roo roopirable Crustalline	TWA	10 mg/m3 0.025 mg/m3	Total particulate. Respirable particles.
ree respirable Crystalline quartz) Silica CAS 14808-60-7)	IWA	0.023 mg/m3	nespirable particles.
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, Oc	ccupational Health and
Additional components	Туре	Value	Form
Hexachlorobenzene CAS 118-74-1)	TWA	0.002 mg/m3	
Nuisance Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
ree respirable Crystalline quartz) Silica CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (Reg. 21	7/2006 The Workplace Safety	And Health Act)	
Additional components	Type	Value	Form
•	••		
-levachlorobenzene	Τ\Λ/ Δ	0.002 mg/m3	
Hexachlorobenzene CAS 118-74-1)	TWA	0.002 mg/m3	
CAS 118-74-1) ree respirable Crystalline quartz) Silica	TWA TWA	0.002 mg/m3 0.025 mg/m3	Respirable fraction.
CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
CAS 118-74-1) ree respirable Crystalline	TWA	0.025 mg/m3	Respirable fraction.
CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7) Canada. Ontario OELs. (Control o	TWA of Exposure to Biological or Cl Type	0.025 mg/m3 hemical Agents) Value	Respirable fraction.
CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7) Canada. Ontario OELs. (Control of Components  DCPA (Dimethyletracloroterephthalate)	TWA of Exposure to Biological or Cl	0.025 mg/m3	Respirable fraction.
CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7) Canada. Ontario OELs. (Control of Components  DCPA (Dimethyletracloroterephthalate) CAS 1861-32-1)	TWA of Exposure to Biological or Cl Type TWA	0.025 mg/m3 hemical Agents) Value 5 mg/m3	
CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7) Canada. Ontario OELs. (Control of Components  DCPA (Dimethyl etracloroterephthalate) CAS 1861-32-1) Additional components	TWA of Exposure to Biological or Cl Type TWA Type	0.025 mg/m3 hemical Agents) Value 5 mg/m3 Value	Respirable fraction.
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CAS 118-74-1) ree respirable Crystalline quartz) Silica CAS 14808-60-7) Canada. Ontario OELs. (Control of Components  OCPA (Dimethyl etracloroterephthalate) CAS 1861-32-1) Additional components  Hexachlorobenzene CAS 118-74-1)	TWA of Exposure to Biological or Cl Type TWA Type TWA	0.025 mg/m3 hemical Agents) Value 5 mg/m3  Value 0.002 mg/m3	Form
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US. OSHA Table Z-3 (29 CFR 1910.1000) **Form Additional components** Value **Type** Nuisance Dust TWA 5 mg/m3 Respirable fraction. 15 mg/m3 Total dust. free respirable Crystalline **TWA** Total dust. 0.3 mg/m3 (quartz) Silica (CAS 14808-60-7)

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

**Exposure guidelines** 

Canada - Alberta OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Hexachlorobenzene (CAS 118-74-1) Can be absorbed through the skin.

**Engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

> should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure

0.1 mg/m3

Respirable.

adequate ventilation, especially in confined areas.

Personal protective equipment

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

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

resistant gloves.

Respiratory protection Chemical respirator with organic dust cartridge. (See label for more complete instructions).

Hand protection Wear protective gloves.

### 9. Physical & Chemical Properties

Fine off-white (gray) to tan powder **Appearance** 

Solid. Physical state **Form** Powder.

Off-white (gray) to tan Color Slightly aromatic odor Odor

**Odor threshold** Not available Not available. pН

Vapor pressure 2.10E-01 mPa (2.5 x 10-6 torr) @ 25°C (gas saturation method)

Vapor density Heavier than air

**Boiling point** Decomposes at 360-370°C

313 °F (156 °C) (313°F) (based on a.i.) / 311 °F (155 °C) estimated Melting point/Freezing point

Solubility (water) Disperses Not available. Specific gravity Not available. Relative density Flash point Not available. Not available. Flammability limits in air,

upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

Not available.

Auto-ignition temperature Evaporation rate

Not applicable
Not applicable

Partition coefficient

4.28 @ 25°C (a.i.)

(n-octanol/water)

Percent volatile

Bulk density 0.25 g/cm3

Other data

pH in aqueous solution 7 - 8

# 10. Chemical Stability & Reactivity Information

Chemical stabilityMaterial is stable under normal conditions.Conditions to avoidContact with incompatible materials.

**Incompatible materials** Strong acids. Strong bases.

Hazardous decomposition products

This product may emit hazadous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED

BREATHING APPARATUS when these conditions are present.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

# 11. Toxicological Information

#### Toxicological data

Product	Species	Test Results	
DACTHAL W-75 Herbicide			
<u>acute</u>			
dermal			
LD50	rabbit	> 10000 mg/kg Toxicity Category IV	
inhalation			
LC50	rat	> 5.7 mg/L Toxicity Category IV	
oral			
LD50	rat	> 10000 mg/kg Toxicity Category IV	

**Acute effects** 

**Sensitization** Not a sensitizer.

**Chronic effects** Not expected to be hazardous by WHMIS criteria. Prolonged inhalation may be harmful.

**Carcinogenicity** Dacthal has been classified by EPA as a Group C, possible human carcinogen.

**ACGIH Carcinogens** 

free respirable Crystalline (quartz) Silica (CAS A2 Suspected human carcinogen.

14808-60-7)

Hexachlorobenzene (CAS 118-74-1)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

free respirable Crystalline (quartz) Silica (CAS 1 Carcinogenic to humans.

14808-60-7)

Hexachlorobenzene (CAS 118-74-1) 2B Possibly carcinogenic to humans.

**Skin corrosion/irritation** Non irritating to slightly irritating to skin.

**Serious eye damage/irritation** Direct contact with eyes may cause temporary irritation.

Mutagenicity Not available.

**Reproductive effects**This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** Not expected to be hazardous by WHMIS criteria.

Synergistic materials Not available.

# 12. Ecological Information

**Ecotoxicological data** 

Components Species Test Results

DCPA (Dimethyl tetracloroterephthalate) (CAS 1861-32-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 20 - 35 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) > 100 mg/l, 96 hours

**Ecotoxicity**Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects**An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity Not available.

Persistence and degradability Not available.

**Partition coefficient** 

DACTHAL W-75 Herbicide 4.28, @ 25°C (a.i.)

## 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. Dispose in accordance with all applicable

regulations.

Waste from residues / unused

products

Dispose of in accordance with local 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 instructions).

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.

## 14. Transport Information

**TDG** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

## 15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR. CANADIAN REGULATIONS: This product is registered under the Pest Control Product Act of Canada. It is a violation of Canadian Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all

No

the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2B - Other Toxic Effects-TOXIC

WHMIS labeling



#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)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

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

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

**Recommended restrictions** 

**HMIS®** ratings

Keep out of the Reach of Children!

Health: 2\* Flammability: 0 Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 0 Instability: 0

Disclaimer

AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information

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Prepared by

This data sheet contains changes from the previous version in section(s):

Not available.

Product and Company Identification: Synonyms

or the product to which the information relates.

Composition / Information on Ingredients: Potential Compounds Formed

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Property Data

Ecological Information: Ecotox Property Data

Transport Information: Material Transportation Information

HazReg Data: International Inventories

GHS: Classification

Material name: DACTHAL W-75 Herbicide
883 Version #: 01 Issue date: 07-16-2015

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