# SAFETY DATA SHEET

# 1. Identification

**Product identifier DACTHAL W-75 Herbicide** 

Other means of identification

291 SDS number

**Product registration** 

5481-490; 5481-491

number

Recommended use

Agricultural Herbicide.

Recommended restrictions Keep out of the Reach of Children!

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

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name **AMVAC Chemical Corporation** 

**Address** 4695 MacArthur Court

**Suite 1200** 

Newport Beach, CA 92660

**United States** 

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

> **AMVAC Chemical Corp** 949-260-6270(FAX)

Product Use 888-462-6822

Website www.amvac.com

CustServ@amvac.com E-mail

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

(USA+Canada)

CHEMTREC® (Outside

+1-703-527-3887

USA)

2. Hazard(s) identification

**Physical hazards** Not classified. **Health hazards** Not classified

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

Not classified. **OSHA** defined hazards

Label elements

Signal word None.

**Hazard statement** Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Avoid release to the environment.

Collect spillage. Response

Store away from incompatible materials. Storage

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

Category 2

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: DACTHAL W-75 Herbicide 883 Version #: 5.1 Revision date: Apr-28-2023 Issue date: Jul-10-2015

#### 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	%
Chlorthal-dimethyl	1,4-Dimethyl 2,3,5,6- tetrachlorobenzene-1,4-dicarboxylate DCPA DACTHAL	1861-32-1	75

# 4. First-aid measures

InhalationAvoid breathing dust. Move to fresh air. Call a physician if symptoms develop or persist.Skin contactWash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.Eye contactImmediately 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.IngestionRinse mouth. Have person sip a glass of water if able to swallow. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

delayed Indication of immediate medical attention and special treatment needed

symptoms/effects, acute and

Provide general supportive measures and treat symptomatically.

**General information**If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

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

Specific methods

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

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. Ensure adequate ventilation. Keep upwind. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Avoid dust formation. Vacuum up or use a scoop to transfer the spilled material to containers for reuse or disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse.

**Environmental precautions** 

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

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment.

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

<b>US. OSHA Table Z-3 Permissible Exposure Limits</b>	(PEL) for Mineral Dusts (29 CFR 1910.1	(0001

Additional components	Туре	Value	Form
Nuisance Dust (CAS SEQ250)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Value	es (TLV)		
Impurities	Туре	Value	
Hexachlorobenzene (CAS	TWA	0.002 mg/m3	

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

**Exposure guidelines** 

118-74-1)

US - California OELs: Skin designation

Hexachlorobenzene (CAS 118-74-1)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies** 

Hexachlorobenzene (CAS 118-74-1) Skin designation applies.

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

Hexachlorobenzene (CAS 118-74-1) Danger of cutaneous absorption

Appropriate 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. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

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

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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. Contaminated work clothing should not be allowed out of the

workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Powder.

Color Off-white (gray) to tan.

Odor Slightly aromatic odor.

Odor threshold Not available pH Not available.

Melting point/freezing point 312.8 °F (156 °C)

Initial boiling point and boiling

Explosive limit - lower (%)

range

A.I. decomposes at 360-370 °C.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Material name: DACTHAL W-75 Herbicide
883 Version #: 5.1 Revision date: Apr-28-2023 Issue date: Jul-10-2015

Not available.

Explosive limit - upper (%)Not available.Vapor pressureNot available.Vapor densityHeavier than airRelative densityNot available.

Solubility(ies)

Solubility (water) Disperses

**Solubility (solvents)**The active ingredient in this product is soluble in aromatic hydrocarbons, chlorinated hydrocarbons,

ketones, and esters

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density0.25 g/cm³Percent volatileNot applicable

pH in aqueous solution 7 - 8

# 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 acids. Strong bases.

**Hazardous decomposition** 

products

No hazardous decomposition products are known. This product may emit hazardous 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.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Dust may irritate respiratory system.

**Skin contact** Prolonged skin contact may cause temporary irritation. **Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

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

Product Species Test Results

DACTHAL W-75 Herbicide

acute dermal

LD50 Rabbit > 10000 mg/kg

inhalation

Dust

LC50 Rat > 5.7 mg/L

oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** Not a sensitizer.

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

mutagenic or genotoxic.

Carcinogenicity A micro-contaminant in Dacthal, Hexachlorobenzene (HCB), has been found to be carcinogenic in

several studies conducted for IARC and NTP. Chlorthal-Dimethyl has been classified by EPA as a

Group C, possible human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Hexachlorobenzene (CAS 118-74-1)

Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

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

Components		Species	lest Results
Chlorthal-dimethyl (CA	S 1861-32-1)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	20 - 35 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 100 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Daphnia magna	0.246 mg/l, 21 d
Fish	NOEC	Oncorhynchus mykiss	0.098 mg/l, 28 d

Persistence and degradability

Bioaccumulative potential

Active Ingredient (a.i.): Chlorthal-Dimethyl is generally not persistent. Laboratory studies indicate a

half-life of 18-37 days.

compound is capa

compound is capable of bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

Chlorthal-dimethyl

4.28, @ 25 °C

Mobility in soil Active Ingredient (a.i.): Chlorthal-Dimethyl itself is not prone to leaching, Koc>1000.

Other adverse effects Tetrachloroterephthalic acid, a breakdown product of Chlorthal-Dimethyl, is known to leach

through soil as a result of agricultural and turf uses and has been found in groundwater which may be used for drinking water. Users of formulated products are advised not to apply

Active ingredient (a.i.): The octanol water partitioning ratio and fish studies indicate that the

Chlorthal-Dimethyl to sand and loamy sand soils where the water table (groundwater) 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

groundwater used for drinking water.

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.

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 container and residues 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.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

**UN** number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Chlorthal-dimethyl)

Transport hazard class(es)

Class 9 Subsidiary risk \_ Packing group Ш **Environmental hazards** Yes **ERG Code** 91

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

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

Read safety instructions, SDS and emergency procedures before handling.

#### **IMDG**

**UN** number

**UN** proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorthal-dimethyl), MARINE

**POLLUTANT** 

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **Environmental hazards** 

Marine pollutant Yes **EmS** F-A. S-F

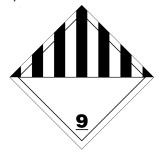
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

Not applicable.

the IBC Code

#### IATA; IMDG



# Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

#### 15. Regulatory information

#### **US federal regulations**

This product is not 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. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION! Avoid contact with eyes, skin, and clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling.

Do not apply directly to water, or to areas where surface water is present (except for application to cranberry bogs) or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

# **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)**

Hexachlorobenzene (CAS 118-74-1) Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Hexachlorobenzene (CAS 118-74-1)

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

# **US state regulations**

# California Proposition 65



WARNING: This product can expose you to chemicals including Hexachlorobenzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

Hexachlorobenzene (CAS 118-74-1) Listed: October 1, 1987

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

Hexachlorobenzene (CAS 118-74-1) Listed: January 1, 1989

## International Inventories

Country(s) or region Inventory name On inventory (yes/no)\* Canada Domestic Substances List (DSL) No Canada Non-Domestic Substances List (NDSL) No

Material name: DACTHAL W-75 Herbicide 883 Version #: 5.1 Revision date: Apr-28-2023 Issue date: Jul-10-2015 Country(s) or region Inventory name On inventory (yes/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

Issue date Jul-10-2015
Revision date Apr-28-2023

Version # 5.1

**HMIS® ratings** Health: 0

Flammability: 0

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 0 Instability: 0

**Disclaimer** This information is p

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**Revision information** First-aid measures: General information

Accidental release measures: Methods and materials for containment and cleaning up

Exposure controls/personal protection: Other

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

**GHS: Classification** 

Material name: DACTHAL W-75 Herbicide
883 Version #: 5.1 Revision date: Apr-28-2023 Issue date: Jul-10-2015