



1. Identification

Product identifier	DACTHAL® FLOWABLE H	IERBICIDE
Other means of identification		
SDS number	298	
Product registration number	5481-487	
Recommended use	Herbicide.	
Recommended restrictions	No other uses are advised. Keep out of the Reach of Cl	nildren!
EPA Registration number	EPA: 5481-487	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	AMVAC Chemical Corporat	ion
Address	4695 MacArthur Court	
	Suite 1200	
-	Newport Beach, CA 92660	040 000 4000
Telephone	AMVAC Chemical Corp	949-260-1200
Website	AMVAC Chemical Corp www.amvac.com	949-260-6270(FAX)
F-mail	CustServ@amvac.com	
Emergency phone number	Medical	888-681-4261
	CHEMTREC®	800-424-9300
	(USA+Canada)	
	Product Use	888-462-6822
	CHEMTREC® (Outside USA)	+1-703-527-3887

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 2B
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
	$\mathbf{\wedge}$	

Signal word Hazard statement

Precautionary statement Prevention Warning Harmful if inhaled. Causes eye irritation. Harmful to aquatic life.

Avoid breathing dust/fume. Wear eye/face protection. Wash hands thoroughly after handling. Avoid release to the environment.

Response	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store away from incompatible materials.
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.

3. Composition/information on ingredients

Mixtures

Fire fighting

equipment/instructions Specific methods

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Chlorthal-dimethyl	2,3,5,6-Tetrachloro-1,4-benzenedicarbox ylic acid, Dimethyl ester DCPA DACTHAL	1861-32-1	54.9
Hi Sil 233		112926-00-8	0.75
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a po or artificial respiration if needed, preferably mouth method if victim inhaled the substance. Induce art equipped with a one-way valve or other proper res symptoms occur.	to mouth if possible. Do no ificial respiration with the a	ot use mouth-to-mouth id of a pocket mask
Skin contact	Take off contaminated clothing and wash before r irritation develops and persists.	euse. Rinse with water. Ge	t medical attention if
Eye contact	Rinse with water about 15-20 minutes. Remove continue rinsing. Get medical attention if irritation		d easy to do.
Ingestion	Rinse mouth. Do not induce vomiting without advi anything by mouth to a victim who is unconscious symptoms occur.		
Most important symptoms/effects, acute and delayed	Causes eye irritation. May cause redness and pai	n.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat sy give oxygen.	/mptomatically. In case of s	hortness of breath,
General information	Ensure that medical personnel are aware of the m protect themselves. In the case of accident or if yo (show the label where possible).		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon d	lioxide (CO2).	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for unidentified organic compounds may be formed w		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protect	ctive clothing must be worn	in case of fire.

In the event of fire, cool tanks with water spray. Water runoff can cause environmental damage.

In the event of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water until well after the fire is out.

General fire hazards No unusual fire or explosion hazards noted. This is a noncombustible solid that will burn or decompose when kept directly in the flame (NFPA rating = 1).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS/SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk, to prevent entry into waterways, sewer, basements or confined areas. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Keep out of the reach of children. Minimize dust generation and accumulation. Avoid contact with eyes. Avoid breathing dust. Wear appropriate personal protective equipment recommended in

section 8. Wash thoroughly after handling. Observe good industrial hygiene practices. Do not
empty into drains. Avoid release to the environment.Conditions for safe storage,Keep out of the reach of children. Keep container tightly closed. Store in a cool, dry place out of

Conditions for safe storage, Keep out of the reach of children. Keep container tightly closed. Store in a cool, dry place out of direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CF	•			
Components	Туре		Value	
Hi Sil 233 (CAS 112926-00-8)	TWA		0.8 mg/m3	
			20 mppcf	
US. ACGIH Threshold Limit	t Values			
Additional components	Туре		Value	
Hexachlorobenzene (CAS 118-74-1)	TWA		0.002 mg/m3	
US. NIOSH: Pocket Guide t	o Chemical Hazards			
Components	Туре		Value	
Hi Sil 233 (CAS 112926-00-8)	TWA		6 mg/m3	
-	ntal Exposure Level (WEEL)	Guides		
Components	Туре		Value	Form
TRADE SECRET	TWA		10 mg/m3	Aerosol.
Biological limit values	No biological exposure lim	ts noted for the ingredi	ent(s).	
xposure guidelines	Dust exposure limit.			
US - California OELs: Skin	designation			
Hexachlorobenzene (CA US - Minnesota Haz Subs: 3	,	Can be absorbed	through the skin.	
Hexachlorobenzene (CA US ACGIH Threshold Limit		Skin designation a	applies.	
Hexachlorobenzene (CA	S 118-74-1)	Can be absorbed	through the skin.	
ontrols		litions. If applicable, us ols to maintain airborne	e process enclosu levels below reco	rres, local exhaust ventilation, mmended exposure limits. If
ndividual protection measures	, such as personal protectiv	ve equipment		
Eye/face protection	Wear safety glasses with s	ide shields (or goggles).	

Skin protection	
Hand protection	Wear chemical resistant gloves (preferably nitrile).
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.
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	Gray opaque viscous liquid suspension
Physical state	Liquid.
Form	Liquid suspension.
Color	Gray opaque
Odor	Slightly aromatic odor
Odor threshold	Not available
рН	6.5 - 8.5
Melting point/freezing point	23 °F (-5 °C)
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	Not available.
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2.10E-01 mPa (2.5 x 10-6 torr) @ 25°C (gas saturation method)
Vapor density	Heavier than air
Relative density	Not 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 density	11 lb/gal @ 20°C
Percent volatile	38.37 % estimated
Specific gravity	1.32 @ 20C
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. It will decompose at elevated temperatures (360-370°C).
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. Strong acids. Strong bases. Strong acids and bases will decompose the ester functions of DACTHAL®.

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. It will decompose at elevated temperatures (360-370°C).

11. Toxicological information

nformation on likely routes of exposure		
Inhalation	Harmful if inhaled.	
Skin contact	Slight skin irritant.	
Eye contact	Causes mild eye irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposure may cause temporary irritation, redness, or discomfort.	

Information on toxicological effects

Acute toxicity

Product	Species	Tes	st Results	
Dacthal Flowable				
<u>acute</u>				
dermal				
LD50	Rabbit	> 50	000 mg/kg	
oral				
LD50	Rat	> 50	000 mg/kg	
Skin corrosion/irritation	May be irritating to the ski	n.		
Serious eye damage/eye irritation	Slight irritant.			
Respiratory or skin sensitization	1			
Respiratory sensitization	Not available.			
Skin sensitization	Not sensitizing.			
Germ cell mutagenicity	No evidence of mutagenio	ity has been observed in animal	testing.	
Carcinogenicity	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. Chlorthal-Dimethyl has been classified by EPA as a Group C, possible human carcinogen.			
IARC Monographs. Overall E				
Hexachlorobenzene (CAS Hi Sil 233 (CAS 112926-0 OSHA Specifically Regulated Not listed.	AS 118-74-1) 2B Possibly carcinogenic to humans.			
US. National Toxicology Pro	gram (NTP) Report on Ca	rcinogens		
Hexachlorobenzene (CAS	S 118-74-1)	Reasonably Anticipated to	be a Human Carcinogen.	
Reproductive toxicity	No effects on reproductive performance, only decreased pup and parental body weights, were seen throughout two successive generations in the rat when treated with Dacthal Technical.			
Specific target organ toxicity - single exposure	Not available.			
Specific target organ toxicity - repeated exposure	Not available.			
Aspiration hazard	Not an aspiration hazard.			
12. Ecological information				
12. Ecological information Ecotoxicity				
•	Species	-	Fest Results	
Ecotoxicity	Species		Fest Results	
Ecotoxicity Components	Species	<u></u>	Fest Results	

Components		Species	Test Results
Fish	LC50	Bluegill (Lepomis macrochirus)	> 100 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-octa Chlorthal-dimethyl	nol / water (log ł	(ow) 4.28	
Mobility in soil	Not available.		
Other adverse effects	Not available.		

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site according to all applicable regulations. This material and its container must be disposed of as hazardous waste. 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 all applicable local/regional/national/international 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	Empty containers should be taken to an approved waste handling site for recycling or disposal according to all applicable regulations. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

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.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Causes moderate eye irritation. Avoid contact with eyes, skin, or 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 (except for application to cranberry bogs) or to intertidal areas below the mean high water mark. Do not allow this material to drift onto neighboring crops or non crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues, or other undesirable results may occur.

Toxic Substances Control Act (TSCA)

Not regulated. Safe Drinking Water Act	Not regulated.			
Safe Drinking Water Act	Not regulated.			
(SDWA)	3			
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(SDWA) US state regulations California Proposition 65				
(SDWA) US state regulations California Proposition 65	is product can expose you use cancer. For more inform			State of California to
(SDWA) US state regulations California Proposition 65 WARNING: Th ca	is product can expose you tuse cancer. For more inform	nation go to www.P6	65Warnings.ca.gov.	State of California to
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Issue date	May-11-2015
Revision date	Jul-27-2020

References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents 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
Version #	2.0
Further information	Dacthal is a registered Trademark of Amvac Chemical Corporation.
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
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