

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/2/2016 Revision date: 4/3/2025 Supersedes: 2/28/2025 Version: 2.2

SECTION 1: Identification

1.1. Identification

Product form

Product name HaloKlear BHR-P50

Product code 301420-05

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Flocculates solids Recommended use Flocculant

1.3. Supplier

Manufacturer

Dober Chemical Corp. 543 Forest Road

Hazle Township, PA, 18202

USA

T 630-410-7300 - F 630-410-7444

regulatory@dober.com - www.dober.com

1.4. Emergency telephone number

: 1-800-255-3924 / 1-813-248-0585 Emergency number

ChemTel

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals Category 1 H290 May be corrosive to metals Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Full text of H statements: see section 16

Precautionary statements (GHS US)

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) H290 - May be corrosive to metals

H318 - Causes serious eye damage : P234 - Keep only in original container.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a doctor.

P390 - Absorb spillage to prevent material-damage.

P406 - Store in corrosive resistant container with a resistant inner liner.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

16% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

16% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Aluminum chloride hydroxide sulfate	CAS-No.: 39290-78-3		Met. Corr. 1, H290 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

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

Symptoms/effects after eye contact : Causes serious eye damage.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

4/3/2025 (Revision date) EN (English US) 2/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

None known. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials. Absorb spillage to prevent material-damage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapor.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when

not in use.

Incompatible products : Strong acids. Strong bases.

Incompatible materials : Direct sunlight.

Packaging materials : Store in corrosive resistant container with a resistant inner liner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

4/3/2025 (Revision date) EN (English US) 3/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary

Personal protective equipment symbol(s):





Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Yellow to amber Odor : odorless

Odor threshold : No data available

pH : 3-3.5

Melting point : No data available : No data available Freezing point Boiling point : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. : No data available Vapor pressure Relative vapor density at 20°C : No data available Relative density No data available Solubility No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

4/3/2025 (Revision date) EN (English US) 4/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. metals. May be corrosive to metals.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS US)

HaloKlear BHR-P50

16% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
16% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Aluminum chloride hydroxide sulfate (39290-78-3)

LD50 oral rat	> 5000 mg/kg (Source: IUCLID)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 5 mg/l/4h

Skin corrosion/irritation : Not classified pH: 3 – 3.5

Serious eye damage/irritation : Causes serious eye damage.

pH: 3 – 3.5

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

4/3/2025 (Revision date) EN (English US) 5/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

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

Symptoms/effects after eye contact : Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

HaloKlear BHR-P50	
LC50 - Fish [1]	3222 ppm O.mykiss (rainbow trout); 96 hour
EC50 - Crustacea [1]	392 ppm Ceriodaphnia; 48 hour
NOEC chronic fish	1389 ppm O. mykiss (rainbow trout)
NOEC chronic crustacea	781.2 ppm Ceriodaphnia

12.2. Persistence and degradability

			-	-	D-C
на	IOK.	lear	вн	K-	250

Persistence and degradability Not established.

Aluminum chloride hydroxide sulfate (39290-78-3)

Persistence and degradability Rapidly degradable

12.3. Bioaccumulative potential

HaloKlear BHR-P50

Bioaccumulative potential Not established.

Aluminum chloride hydroxide sulfate (39290-78-3)

Partition coefficient n-octanol/water (Log Pow) <

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

Ecological information : None known.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

UN-No.(DOT)

: Non Regulated when transported in packaging constructed of materials that will not react dangerously with or be degraded by the material.

4/3/2025 (Revision date) EN (English US) 6/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

UN-No. (IMDG) : 3264 UN-No. (IATA) : 3264

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable.

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Aluminum Chloride Hydroxide Sulfate)

Proper Shipping Name (IATA) : Corrosive liquid, acidic, inorganic, n.o.s.

(Aluminum Chloride Hydroxide Sulfate)

14.3. Transport hazard class(es)

Class (DOT) : Not applicable.

:

Transport hazard class(es) (IMDG) : 8

Hazard labels (IMDG) : 8



Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8



14.4. Packing group

Packing group (DOT) : Not applicable.

Packing group (IMDG) : III

Packing group (IATA) : III

14.5. Environmental hazards

Marine pollutant(IMDG) : No
Marine pollutant(IATA) : No

14.6. Special precautions for user

DOT

Not applicable

IMDG

Special provision (IMDG) : 274
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing instructions (IMDG) : P001
Tank instructions (IMDG) : T14
Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

Stowage category (IMDG) : B Segregation (IMDG) : SG36 MFAG-No : 154

IATA

: E2 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity (IATA) : 0.5L PCA packing instructions (IATA) : 851 PCA max net quantity (IATA) : 11 : 855 CAO packing instructions (IATA) CAO max net quantity (IATA) : 30L Special provision (IATA) : A3 ERG code (IATA) : 8L

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 4/3/2025 Other information : None.

Full text of H-phrases	
H290	May be corrosive to metals
H318	Causes serious eye damage

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or

permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including

intrinsically noncombustible materials such as concrete, stone, and

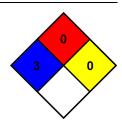
sand.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

: C - Safety glasses, Gloves, Synthetic apron

Safety Data Sheet (SDS), USA

Personal protection

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.