

#### Safety Data Sheet

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

Regulations

Revision date: 08/07/2014 Supersedes: Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : CWT-35
Product form : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Water treatment chemical

#### 1.3. Details of the supplier of the safety data sheet

Kriss Premium Products, Inc. 3400 East 42nd Street Minneapolis, MN 55406

#### 1.4. Emergency telephone number

Emergency number : INFORMATION: 612-722-8485 CHEMTREC: (800) 424-9300

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Skin sensitization: Category 1Carcinogenicity: Category 1BReproductive toxicity: Category 1BAcute aquatic toxicity: Category 2Chronic aquatic toxicity: Category 2

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS08



GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H317 – May cause an allergic skin reaction.

H350 - May cause cancer

H360 – may damage fertility or the unborn child H411 – Toxic to aquatic life with Ion lasting effects

Precautionary statements (GHS-US) : Prevention

P201 – Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood

P261 – Avoid breathing mist, vapours or spray.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

P281 – Use personal protective equipment as required.

Response

P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 - IF skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse

P391 – Collect spillage.

Storage

P405 - Store locked up

Disposal

P501 - Dispose of contents/container in accordance with local regulation.

2.3. Potential health effects

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin : May cause an allergic skin reaction.

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: Not expected to be irritating. Ingestion : Not expected to be irritating.

Aggravated Medical Condition : None known.

Symptoms of Overexposure No information available.

Carcinogenicity 2.4.

: No ingredient of this product present at levels greater than or equal to 0.1% is identified as **IARC** 

probable, possible or confirmed human carcinogen by IARC.

**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

NTP Reasonably anticipated to be a human carcinogen Imidazolidine-2-thione 96-45-7

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

Not applicable

**ACGIH** 

#### 3.2. Mixture

Name	Product identifier	Classification	%
Nabam	142-59-6	Acute Toxicity 4; H302 Skin Sensitivity 1;H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 1	1 - 5
Imidazolidine-2-thione	96-45-7	Acute Toxicity 4; H302 Carc. 2; H351 Repr. 1B; H360 STOT RE 1; H372	0.1 - 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general advice : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the

doctor in attendance.

First-aid measures after inhalation IF BREATHED IN: moveperson into fresh air. Consult a physician after significant exposure.

First-aid measures after skin contact IF ON SKIN: Take off contaminated clothing and shoes immediately. Rinse immediately with

plenty of water. If skin irritation persists, call a physician.

First-aid measures after eye contact IF IN EYES: Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep

eye wide open while rinsing. If eye irritation persists, consult a specialist.

IF SWALLOWED: Clean mouth with water and drink afterwards plenty of water. Never give First-aid measures after ingestion

anything by mouth to an unconscious person. Obtain medical attention.

4.2. Notes to physician

: No information available. Symptoms Risks No information available. **Treatment** : No information available.

## **SECTION 5: Firefighting measures**

Suitable extinguishing media : Use extinguishing measures that are appropriate tolocal circumstances and the surrounding

environment.

Specific haazards during fire fighting / Specific hazards arising from the chemical

: Do not allow run-off from fire fighting to enter drains or water courses.

Combustion products

: Carbon oxides, Sulfure oxides, Sulfer compounds.

Special protective equipment for fire-fighters

: Wear self-contained breathing apparatus and protective suit.

Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions

Use personal protective equipment. Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3. Methods for cleaning up / Methods for containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 6.4. Additional advice

For personal protection see section 8.

#### **SECTION 7: Handling and storage**

#### 7.1. Handling

Advice on safe handling : For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allerrgies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and dringing should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Obtain special instructions before use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2. Storage

Requirements for storage areas and containers : Prevent unauthorized access.

Keep container tightly closed in a dry and well-ventilated place.

Reacts with copper, aluminum, zinc and their alloys.

Minimum storage temperature : Avoid temperatures below 5 °C (41 °F)

Maximum storage temperature : 40 °C (104 °F)

Other data : Do not freeze. Do not store near acids

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Exposure Guidelines

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

Decomposition products	CAS No.	Value	Control parameters	Update	Basis	Form of exposure	
Sulphur dioxide	7446-09-5, 7746- 09-5	STEL	0.25 ppm	2009-01-01	ACGIH		
	Further Information	:	Pulmonary function Lower Respiratory Tract Irritation A4: Not classifiable as a human carcinogen				
		TWA	2 ppm 5 mg/m <sup>3</sup>	2005-09-01	NIOSH REL		
		STEL	5 ppm 13 mg/m <sup>3</sup>	2005-09-01	NIOSH REL		
		TWA	5 ppm 13 mg/m <sup>3</sup>	1997-08-04	OSHA Z-1		
	Further Information	÷	(B): The value in mg	ng/m³ is approximate.			
		TWA	2 ppm 5 mg/m <sup>3</sup>	1989-01-19	OSHA P0		
		STEL	5 ppm 13 mg/m <sup>3</sup>	1989-01-19	OSHA P0		
Hydrogen sulphide	7783-06-4, 7783- 06-4	TWA	1 ppm	2013-03-01	ACGIH		
	Further Information	:	Central Nervous System impairment Upper Respiratory Tract irritation				
		STEL	5 ppm	2013-03-01	ACGIH		
	Further Information	:	Central Nervous System impairment Upper Respiratory Tract irritation				
		С	10 ppm 15 mg/m <sup>3</sup>	2005-09-01	NIOSH REL		
	Further Information	:	10 minute ceiling value.				
		CEL	20 ppm	2007-01-01	OSHA Z-2		
	Further Information	:	Z37.2-1966				

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		Dools	E0.ppm	2007-01-01	OSHA Z-2	
	Further	Peak	50 ppm	2007-01-01	USHA Z-2	
	Further Information	:	Z37.2-1966			
		TWA	10 ppm 14 mg/m <sup>3</sup>	1989-01-19	OSHAP0	
		STEL	15 ppm 21 mg/m <sup>3</sup>	1989-01-19	OSHAP0	
	Further Information	:	(2): See Table Z-2			
Carbon disulphide	75-15-0, 75-15-0	TWA	1 ppm	2008-01-01	ACGIH	
	Further Information	:	Peripheral Central Nervous System impairment BEI: Substances for which there is a biological Exposure Index or Incices (see BEI* section) A4: Not classifiable as a human carcinogen Skin: Danger of cutaneous absorption.			
		TWA	1 ppm 3 mg/m <sup>3</sup>	2005-09-01	NIOSH REL	
	Further Information	:	skin: Potential for d	tential for dermal absorption		
		ST	10 ppm 30 mg/m <sup>3</sup>	2005-09-01	NIOSH REL	
	Further Information	:	skin: Potential for dermal absorption			
		TWA	20 ppm	2007-01-01	OSHA Z-2	
	Further Information	:	Z37.3-1968			
		CEIL	30 ppm	2007-01-01	OSHA Z-2	
	Further Information	:	Z37.3-1968			
		Peak	100 ppm	2007-01-01	OSHA Z-2	
	Further Information	:	Z37.3-1968	· · · · · · · · · · · · · · · · · · ·		
		TWA	4 ppm 12 mg/m <sup>3</sup>	1989-01-19	OSHAP0	
	Further Information	:	X: Skin notation			
		STEL	12 ppm 36 mg/m <sup>3</sup>	1989-01-19	OSHAP0	
	Further Information	:	X: Skin notation			
	Further Information	:	(2): See Table Z-2			

#### 8.2. Exposure controls

Engineering measures : Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment : Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the

: Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the dependent type.











Hand protection : Glove material: Neoprene or Nitrile rubber

Eye/face protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.

Wear full face mask supplied with: Combination filter ABEKP

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

# 8.3. Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and

lakes or drains inform respective authorities.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Form : Liquid
Color : Yellow green
Odor : Sulfurous
Odor Threshold : No data available

Safety data

pH : 11 at 100% solution

Melting point/freezing point : 0°C
Boiling point/boiling range : > 100 °C

Flash point : > 94 °C, Method: closed cup

Evaporation rate :

Decomposition temperature : Heating can release hazardous gases.

Flammability (solid, gas) : Not applicable
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapor pressure : < 23 hPa at 20°C
Relative vapor density : > 1 (Air = 1.0)
Relative density : No data available

Water solubility : Soluble

Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

The material safety data sheet only contains information relating to safety and does not replace any product information or product specification.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Conditions to avoid

Extremes of temperature and direct sunlight. For safety, store below: 40°C (104°F)

#### 10.2. Materials to avoid

Reacts with copper, aluminum, zinc and their alloys. Oxidizing agents. Acids.

#### 10.3. Hazardous decomposition products

Sulphur dioxide, Hydrogen sulphide, Carbon disulphide

#### 10.4. Thermal decomposition

Heating can release hazardous gases.

# 10.5. Reactivity

Stable under normal conditions.

#### 10.6. Chemical stability

Stable under recommended storage conditions.

#### 10.7. Hazardous reactions

No dangerous reaction known under conditions of normal use.

# **SECTION 11: Toxicological information**

#### 11.1. Product Information

#### **Toxicology Assessment**

Further Information : May damage fertility or the unborn child.

Suspected of causing cancer.

**Test Result** 

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Acute oral toxicity : Acute toxic estimate: > 5,000 mg/kg

Method: Calculation method

Carcinogenicity

IARC : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

NTP : Reasonably anticipated to be a human carcinogen Imidazolidine-2-thione 96-45-7

ACGIH : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

**Toxicology Data for the Ingredients** 

**Toxicology Assessment** 

:

Component: Imidazolidine-2-thione

CMR effects : Carcinogenicity: Suspected human carcinogens

Reproductive toxicity: Presumed human reproductive toxicant

May damage the unborn child

**Test Result** 

Component: Nabam

Acute oral toxicity : LD50: > 300 - 2,000 mg/kg, Species: rat

Sensitization : Result: May cause sensitization by skin contact.

Target Organ Systemic : May cause respiratory irritation.

Toxicant - Single exposure

## **SECTION 12: Ecological information**

# 12.1. Product Information Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section

602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined

by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B).

Ingredients: Test Result

Component: Nabam

**Ecotoxicity effects** 

Toxicity to fish : LC50: >0.1 – 1 mg/l, Exposure time: 96h

Species: Cyprinodon variegatus (sheepshead minnow)

Toxicity to daphnia and other aquatic

invertebrates

: EC50: 0.14 - 5.60 mg/l, Exposure time: 48h

Species: Daphnia magna (water flea)

M-Factor : 1

Elimination information

(persistence and degradability)

Bioaccumulation : No data available Mobility : No data available

Biodegradability : Result: Not readily biodegradable.

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

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#### Component: Imidazolidine-2-thione

**Ecotoxicity effects** 

Toxicity to fish : LC50: 7,500 mg/l, Exposure time: 96h

Species: Poecilia retiaculata (guppy)

Literature data.

Elimination information

(persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Not readily biodegradable. Literature data.

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

# **SECTION 13: Disposal considerations**

13.1. Product

: The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Hazardous waste.

Dispose of contents/container in accordance with local regulation.

Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

#### **SECTION 14: Transport information**

#### 14.1. International regulation

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Sodium dimethyldithiocarbamate, Nabam)

Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Environmentally hazardous : Yes

IMDG-Code

UN number : Heating can release hazardous gases.

Proper shipping name : ENVIRNMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Sodium dimethyldithiocarbamate, Nabam)

 Class
 : 9

 Packing group
 : III

 Labels
 : 9

 EmS Code
 : F-A, S-F

Marine pollutant : Yes (Sodium dimethyldithiocarbamate, Nabam)

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

Not applicable for product as supplied

#### 14.2. Domestic Regulation

**49 CFR** 

UN/ID/NA No. :: UNN 3303832

Proper shipping name :: Errwirommeentaally/Haazzarddoussssublisstamoze, likiquidtl, mooss.

(\$Sootilium cilimeethyyddilithioocaatdaamaatee, Nkadaam))

Class :: 99
Packing group :: IIII
Labels :: 99
ERG Code :: 96741

Marine pollutant :: 964s (Sodium dimethyldithiocarbamate, Nabam)

Reportable quantity :: Y1964 product contains the following substance(s) which are environmentally hazardous per 49

. VER 172.101, Appendix A: ()

#### **SECTION 15: Regulatory information**

**Notification status** 

CH INV : YES. The mixture contains substances listed on the Swiss Inventory

TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in

compliance with a TSCA Inventory exemption.

DSL : YES. All components of this product are on the Canadian DSL. AOCS : YES. On the inventory, or in compliance with the inventory. : YES. On the inventory, or in compliance with the inventory. **NZIoC FNCS** : YES. On the inventory, or in compliance with the inventory. ISHL : YES. On the inventory, or in compliance with the inventory. : YES. On the inventory, or in compliance with the inventory. **KFCI PICCS** : YES. On the inventory, or in compliance with the inventory. **IFCSC** : YES. On the inventory, or in compliance with the inventory.

For explanation of abbreviations, see section 16.

#### **Further Information**

This product is subject to regulation under the US Federal Fungicide, Insecticide and Rodenticide Act (FIFRA) and is therefore expted under the US Toxic Substances Control Act (TSCA) Inventory requirements.

All industrial workers applying this product must wear coveralls over long-sleeved shirt and long pants, shoes, socks and chemical resistant gloves. During dilution a chemical resistant apron and goggles or face shield must also be worn. For additional information on approved uses reference the label.

OSHA Hazards : Carcinogen, Toxic by ingestion, Moderate respiratory irritant.

#### **EPCRA – Emergency Planning and Community Right-to-Know**

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

Sara 211/312 Hazards : Chronic Health Hazard

Acute Health Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

iii, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section

313:

Sodium dimethyldithiocarbamate 128-04-1 Nabam 142-59-6 Imidazolidine-2-thione 96-45-7

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#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40CFR61):

Imidazolidine-2-thione 96-45-7 Carbon disulphide 75-15-0

The following chemical(s) are listed under the U.S. Clean Air Act Section 112® for Accidental Release Prevention (40 CFR 68.130, Subpart F):

Ethylenediamine 107-15-3
Carbon disulphide 75-15-0
Dimethylamine 124-40-3

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489)

Ethylenediamine 107-15-3
Carbon disulphide 75-15-0
Dimethylamine 124-40-3

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. Clean Water Act Section 311, Table 116.4A:

Sodium Hydroxide 1310-73-2
Ethylenediamine 107-15-3
Carbon disulphide 75-15-0
Dimethylamine 124-40-3

The following Hazardous Chemicals are listed under the U.S. Clean Water Act Section 311, Table 117.3:

Sodium Hydroxide 1310-73-2
Ethylenediamine 107-15-3
Carbon disulphide 75-15-0
Dimethylamine 124-40-3

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

#### California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

Imidazolidine-2-thione 96-45-7

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Sodium dimethyldithiocarbamate 128-04-1
Nabam 142-59-6
Imidazolidine-2-thione 96-45-7
Carbon disulphide 75-15-0

#### **SECTION 16: Other information**

# Full text of H-Statements

H302 : Harmful if swallowed.

H317 : May cause an allergic skin reaction.
H335 : May cause respiratory irritation.
H351 : Suspected of causing cancer

H360 : May damage fertility or the unborn child.

H372 : Causes damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

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#### **Further Information**

NFPA health hazard : 2 - Material that on intense or continued but not chronic

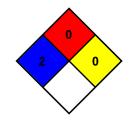
exposure could cause temporary incapacitation or possible

residual injury.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Material that in itself is normally stable, even under fire

exposure conditions, and is not reactive with water.



#### **HMIS III Rating**

Health: 2Flammability: 0Physical: 0Personal Protection:

#### Notification status explanation

REACH 1907/2006 (EU)

CH INV Switzerland. New notified substances and declared preparations.

TSCA United States TSCA Inventory

DSL Canadian Domestic Substances List (DSL)

AICS Australia Inventory of Chemical Substances (AICS)
NZIoC New Zealand. Inventory of Chemical Substances

ENCS Japan. ENCS-Existing and New Chemical Substances Inventory

ISHL Japan. ISHL-Inventory of Chemical Substances (METI)
KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Phillippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

We believe that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily adequate in every circumstance. These suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements. The seller makes no warranty expressed or implied concerning the accuracy or any results obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.

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