

AERO® MAXGOLD® 900 PROMOTER

Revision Date 02/19/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name AERO® MAXGOLD® 900 PROMOTER

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- Mining chemicals

1.3 Details of the supplier of the safety data sheet**Company**

CYTEC INDUSTRIES INC.
504 CARNEGIE CENTER
PRINCETON, NJ 08540 USA
Telephone: +1-973-357-3193

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

Disclaimer

The ® indicates a Registered Trademark in the United States and the ™ indicates a trademark in the United States. The mark may also be registered, subject of an application for registration, or a trademark in other countries.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 3	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Specific target organ systemic toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure if swallowed. (Liver), Oral

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

- Danger

Hazard Statements

- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H372 Causes damage to organs (Liver) through prolonged or repeated exposure if swallowed.

Precautionary Statements

Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

- Always obtain medical advice, even if there are no symptoms.
- Be prepared to provide first aid or medical support if necessary.

In case of ingestion

- Do NOT induce vomiting.
- Immediate medical attention is required.
- Show this sheet to the doctor.
- Do not give anything to drink.
- Be prepared to provide first aid or medical support if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

- Symptoms will depend on the target organs.
- Inhalation may provoke the following symptoms:
 - Cough
 - Breathing difficulties
 - Irritation
 - Redness
 - Swelling of tissue
- Ingestion may provoke the following symptoms:
 - Nausea
 - Diarrhea
 - Abdominal pain
 - May cause respiratory tract irritation.
 - allergic rhinitis
 - Severe allergic skin reactions, bronchospasm and anaphylactic shock
 - Itching
 - Dermatitis
 - Causes skin burns.
 - Lachrymation
 - Conjunctivitis
 - Causes eye burns.
- The gas deadens the sense of smell. Do not depend on odor to detect presence of gas.

Effects

- Effects on health may appear after exposure.
- Serious effects on health may appear after prolonged or repeated exposure.
- The effects will depend on target organs.
- Chronic exposure is suspected of causing genetic effects on basis of animal data. Effects on human have not been proven.
- Chronic exposure may cause allergic dermatitis.
- Exposure may cause allergic rhinitis, conjunctivitis, asthma or shock.
- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- In case of inhalation, irritation/corrosion of the respiratory tract.
- Risk of respiratory disorder
- May cause irreversible skin damage.
- Chronic exposure may cause dermatitis.
- May cause irreversible eye damage.
- Loss of the eye

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- Be aware to maintain life support if necessary.
- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- Treat symptomatically.
- Contact a poison control center.
- Keep under medical supervision for at least 48 hours.
- Contact the occupational physician in case of exposure.

SECTION 5: Firefighting measures

Flash point 95 °F (35 °C)
Pensky-Martens closed cup

Autoignition temperature No data available

Flammability / Explosive limit No data available

5.1 Extinguishing media**Suitable extinguishing media**

- Use water, carbon dioxide or dry chemical to extinguish fires.

Unsuitable extinguishing media

- High volume water jet

5.2 Special hazards arising from the substance or mixture**Specific hazards during fire fighting**

- Under fire conditions:
- Will burn
- On combustion, toxic gases are released.

Hazardous combustion products:

- Carbon disulfide may be formed under fire conditions.

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- Wear self-contained, positive pressure breathing apparatus and full firefighting protective clothing for fire situations only.
- For further information refer to section 8 "Exposure controls / personal protection."

Specific fire fighting methods

- Cool containers/tanks with water spray.
- Do not use a solid water stream as it may scatter and spread fire.

Further information

- Do not flush to sewer which may contain acid.
- This could result in generation of toxic and flammable carbon disulfide and carbonyl sulfide.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Where exposure level is not known, wear approved, positive pressure, self-contained respirator.
- Where exposure level is known, wear approved respirator suitable for level of exposure.
- In addition to the protective clothing/equipment in Section 8, wear a two piece PVC suit with hood or PVC overalls with hood.

6.2 Environmental precautions

- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Contain the spilled material by diking.
- Do not let product enter drains.
- Do not allow uncontrolled discharge of product into the environment.

- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

- Remove all sources of ignition.
- Stop leak if safe to do so.
- Keep in properly labeled containers.
- Keep in suitable, closed containers for disposal.
- Wash nonrecoverable remainder with large amounts of water.
- Soak up with inert absorbent material and dispose of as hazardous waste.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of in accordance with local regulations.
- Never return spills in original containers for re-use.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Containers must be bonded and grounded when pouring or transferring material.
- This material contains a flammable or combustible liquid and vapor.
- Do not release to water.
- Large quantities of undiluted product should not be mixed with acids, since evolution of toxic and flammable carbon disulfide and carbonyl sulfide could result. In particular, precautions must be taken to avoid the accidental discharge of large volumes of the product in acid storage tanks or any tank or containment containing acidic materials. This precaution does not, of course, apply to addition of this reagent to flotation pulps in amounts customarily used in flotation, where the reagent amounts are small and instantly diluted to concentrations well below the solubility limits.

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Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Observe the general rules of industrial fire protection.
- Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, 60 °C < Flashpoint < 93 °C. Class IIIb Combustible Liquids, Flashpoint > 93 °C.
- Keep away from sources of ignition - No smoking.

Requirements for storage rooms and vessels**Storage period:** 36 Months

- Avoid prolonged (4 months or longer) exposure to moisture. Wear proper PPE (respirator) if material has been exposed to moisture for more than 4 months.
- Keep away from strong acids and strong bases
- To guarantee safety keep according to Storage temperature and conditions.
- Temperature does not have impact on material quality.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters**Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
1-Butanol	C	50 ppm 150 mg/m3	National Institute for Occupational Safety and Health
		Potential for dermal absorption	
1-Butanol	TWA	20 ppm	American Conference of Governmental Industrial Hygienists
1-Butanol	TWA	100 ppm 300 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants

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			The value in mg/m3 is approximate.
1-Butanol	C	50 ppm 150 mg/m3	
			Skin

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

Components	CAS-No.	Concentration
1-Butanol	71-36-3	1400 ppm

8.2 Exposure controls**Control measures****Engineering measures**

- Ensure adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures**Respiratory protection**

- Keep in a well-ventilated place.

Hand protection

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

Suitable material

- Nitrile or fluorinated rubber gloves.

Eye protection

- Chemical resistant goggles must be worn.
- Tightly fitting safety goggles

Skin and body protection

- Impervious clothing
- Full protective suit
- Change working clothes after each work-shift.
- Contaminated work clothing should not be allowed out of the workplace.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

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SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	Physical state: liquid Color: yellow to light brown.
<u>Odor</u>	characteristic sulfur
<u>Odor Threshold</u>	No data available
<u>Molecular weight</u>	Mixture
<u>pH</u>	Not applicable
<u>Melting point/freezing point</u>	Freezing point: 38.7 °F (3.7 °C)
<u>Initial boiling point and boiling range</u>	No data available
<u>Flash point</u>	95 °F (35 °C) Pensky-Martens closed cup
<u>Evaporation rate (Butylacetate = 1)</u>	No data available
<u>Flammability (solid, gas)</u>	No data available
<u>Flammability (liquids)</u>	No data available
<u>Flammability / Explosive limit</u>	No data available
<u>Autoignition temperature</u>	No data available
<u>Vapor pressure</u>	No data available
<u>Vapor density</u>	No data available
<u>Density</u>	1.00 - 1.10 g/cm ³ (77 °F (25 °C))
<u>Relative density</u>	No data available
<u>Solubility</u>	Water solubility: negligible
<u>Partition coefficient: n-octanol/water</u>	No data available
<u>Decomposition temperature</u>	No data available
<u>Viscosity</u>	Viscosity, dynamic : 18 - 23 mPa.s (68 °F (20 °C))
<u>Explosive properties</u>	No data available
<u>Oxidizing properties</u>	Not considered as oxidizing.

9.2 Other information**Corrosion of Metals**

Not corrosive to metals.

Peroxides

The substance or mixture is not classified as organic peroxide.

Reactions with water / air

Contact with acids liberates toxic gas.

SECTION 10: Stability and reactivity**10.1 Reactivity**

- no data available

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- no data available

10.4 Conditions to avoid

- Keep away from heat, sparks and flame.
- Strong acids and oxidizing agents

10.5 Incompatible materials

- Strong acids
- Aluminum
- Oxidizing agents

10.6 Hazardous decomposition products**Hazardous decomposition products**

- Carbonyl sulfide
- Carbon dioxide (CO₂)
- carbon disulphide.

Thermal decomposition

- Alkyl sulfides
- Hydrogen cyanide (hydrocyanic acid)
- Hydrogen sulfide
- Alkyl mercaptans
- Carbon monoxide
- Sulphur dioxide

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

This product is classified as acute toxicity category 4
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute inhalation toxicity

Not classified as hazardous for acute inhalation toxicity according to GHS.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute dermal toxicity

Not classified as hazardous for acute dermal toxicity according to GHS.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute toxicity (other routes of administration)

Not applicable

Skin corrosion/irritation

Irritating to skin.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Serious eye damage/eye irritation

Risk of serious damage to eyes.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Respiratory or skin sensitization

Modified thiocarbamate

Classified as a skin sensitizer sub-category 1A according to GHS criteria

Thioimidodicarbonic acid
((HO)C(O)NHC(S)(OH)), C,C'-dibutyl
ester

Maximization Test - Guinea pig
Responding animals in GPMT < 30%
Method: OECD Test Guideline 406
Unpublished internal reports

1-Butanol

By analogy

Maximization Test - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406
Published data

Carbamic acid ester

Maximization Test - Guinea pig
Responding animals in GPMT ≥ 30%
Published data

Modified isothiocyanate compound

Classified as a skin sensitizer sub-category 1B according to GHS criteria

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Mutagenicity**Genotoxicity in vitro**

Modified thiocarbamate

Ames test

negative

Product is not considered to be genotoxic

Thioimidodicarbonic acid

((HO)C(O)NHC(S)(OH)), C,C'-dibutyl ester

Ames test

Strain: Salmonella typhimurium and Escherichia coli with and without metabolic activation

negative

Method: OECD Test Guideline 471

Unpublished internal reports

In vitro micronucleus test

Strain: Human lymphocytes

with and without metabolic activation

negative

Unpublished internal reports

1-Butanol

Ames test

with and without metabolic activation

negative

Method: Expert judgment

Published data

In vitro micronucleus test

Strain: V79

without metabolic activation

negative

Published data

Gene mutation assays in mammalian cells.

Strain: V79

with and without metabolic activation

negative

Method: OECD Test Guideline 476

Unpublished reports

Carbamic acid ester

Ames test

negative

Published data

Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Modified isothiocyanate compound

Ames test

Method: Structure-activity relationship (SAR)

In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Modified thiocarbamate

In vivo micronucleus test - Mouse

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	negative Product is not considered to be genotoxic
Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), C,C'-dibutyl ester	Chromosome aberration test in vivo - Rat male Oral Method: OECD Test Guideline 475 negative Unpublished internal reports In vivo micronucleus test - Mouse male Oral Method: OECD Test Guideline 474 ambiguous Unpublished internal reports In vivo mammalian alkaline comet assay - Rat Liver cells male Oral Method: OECD Test Guideline 489 negative Unpublished internal reports In vivo mammalian alkaline comet assay - Rat Stomach male Oral Method: OECD Test Guideline 489 positive Unpublished internal reports In vivo mammalian alkaline comet assay - Rat Stomach
1-Butanol	positive In vivo micronucleus test - Mouse male and female Oral Method: OECD Test Guideline 474
Carbamic acid ester	negative Gavage Unpublished reports - mice Intraperitoneal route negative Published data

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Carcinogenicity

The product is not considered to be carcinogenic.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

The product is not considered to affect fertility.,According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Developmental Toxicity/Teratogenicity

The product is not considered to be toxic for development.,According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

STOT**STOT-single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

STOT-repeated exposure

Target Organs: Liver
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1 according to GHS criteria.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

The product itself has not been tested.

Experience with human exposure**Experience with human exposure : Inhalation**

In contact with acid

Symptoms: Released substances:
carbon disulphide.
Carbonyl sulfide
Inhalation may provoke the following symptoms:
Irritating to the respiratory system and mucous membranes.
Coma
cardiorespiratory failure
Neurological disorders
Gastrointestinal disturbance

Experience with human exposure : Skin contact

No data is available on the product itself.

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Experience with human exposure : Eye contact

No data is available on the product itself.

Experience with human exposure : Ingestion

No data is available on the product itself.

CMR effects**Mutagenicity**Thioimidodicarbonic acid
((HO)C(O)NHC(S)(OH)), C,C'-dibutyl
ester

Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.

Aspiration toxicity

No aspiration toxicity classification, According to the available data on the components, According to the classification criteria for mixtures.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish** The product itself has not been tested.**Acute toxicity to daphnia and other aquatic invertebrates** The product itself has not been tested.**Toxicity to aquatic plants** The product itself has not been tested.**Toxicity to microorganisms** The product itself has not been tested.**Chronic toxicity to fish** The product itself has not been tested.**Chronic toxicity to daphnia and other aquatic invertebrates** The product itself has not been tested.**Sediment compartment****Toxicity to benthic organisms** The product itself has not been tested.**Terrestrial Compartment**

Toxicity to soil dwelling organisms	The product itself has not been tested.
Toxicity to terrestrial plants	The product itself has not been tested.
Toxicity to above ground organisms	The product itself has not been tested.

M-Factor

Modified thiocarbamate	Acute aquatic toxicity = 1 Chronic aquatic toxicity = 1
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12.2 Persistence and degradability**Abiotic degradation**

Stability in water	Conclusion is not possible for a mixture as a whole.
Photodegradation	Conclusion is not possible for a mixture as a whole.
Other Physicochemical reactions	Conclusion is not possible for a mixture as a whole.

Physical- and photo-chemical elimination

Physico-chemical removability	Conclusion is not possible for a mixture as a whole.
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Biodegradation

Biodegradability	As (bio)degradability is not relevant for mixtures, all the components of the mixture were assessed individually (rapid degradability assessment available below).
Ratio BOD / COD	Conclusion is not possible for a mixture as a whole.
Ratio BOD / ThOD	Conclusion is not possible for a mixture as a whole.
Biochemical Oxygen Demand (BOD)	Conclusion is not possible for a mixture as a whole.
Dissolved organic carbon (DOC)	Conclusion is not possible for a mixture as a whole.
Chemical Oxygen Demand (COD)	Conclusion is not possible for a mixture as a whole.
Adsorbed organic bound halogens (AOX)	Conclusion is not possible for a mixture as a whole.

Degradability assessment

Conclusion is not possible due to incomplete or heterogeneous data on the components
 Unpublished reports
 Published data

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water	Conclusion is not possible for a mixture as a whole.
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Bioconcentration factor (BCF) As bioaccumulation is not relevant for mixtures, all the components of the mixture were assessed individually.
Conclusion is not possible due to incomplete or heterogeneous data on the components
Unpublished reports
Published data

12.4 Mobility in soil

Adsorption potential (Koc) Conclusion is not possible for a mixture as a whole.

Known distribution to environmental compartments Conclusion is not possible due to incomplete or heterogeneous data on the components

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
According to the available data on the components

12.6 Other adverse effects**Ecotoxicity assessment**

Short-term (acute) aquatic hazard Very toxic to aquatic life.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Long-term (chronic) aquatic hazard Very toxic to aquatic life with long lasting effects.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

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DOT

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUIDS, N.O.S. (Butanol, Modified thiocarbamate)
14.3 Transport hazard class	3
Label(s)	3
14.4 Packing group	
Packing group	III
ERG No	128
14.5 Environmental hazards	YES
Marine pollutant	Marine Pollutant (Modified thiocarbamate)
14.6 Special precautions for user	

This product contains one or more ingredients identified as a hazardous substance in Appendix A of 49 CFR 172.101.

Reportable quantities : RQ substance: Butanol
RQ limit for substance: 5,000 lb

TDG

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Butanol, Modified thiocarbamate)
14.3 Transport hazard class	3
Label(s)	3
14.4 Packing group	
Packing group	III
ERG No	128
14.5 Environmental hazards	YES
Marine pollutant	Marine Pollutant (Modified thiocarbamate)

NOM

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Butanol, Modified thiocarbamate)
14.3 Transport hazard class	3
Label(s)	3
14.4 Packing group	
Packing group	III
ERG No	128

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14.5 Environmental hazards
Marine pollutant YES

IMDG

14.1 UN number UN 1993
14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S. (Butanol, Modified thiocarbamate)
14.3 Transport hazard class 3
Label(s) 3
14.4 Packing group III
14.5 Environmental hazards
Marine pollutant YES
14.6 Special precautions for user
 EmS F-E , S-E

For personal protection see section 8.

IATA

14.1 UN number UN 1993
14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S. (Butanol, Modified thiocarbamate)
14.3 Transport hazard class 3
Label(s): 3
14.4 Packing group III
Packing instruction (cargo aircraft) 366
Max net qty / pkg 220.00 L
Packing instruction (passenger aircraft) 355
Max net qty / pkg 60.00 L
14.5 Environmental hazards YES
14.6 Special precautions for user
 For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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SECTION 15: Regulatory information**15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a European Solvay legal entity, this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of Europe, please contact your local representative for additional information.
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- One or more components not listed on inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- One or more components not listed on inventory
New Zealand. Inventory of Chemical Substances	- One or more components is not listed on the NZIOC inventory. The HSNO status of the product has not been assessed.

15.2 Federal Regulations**US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Flammable (gases, aerosols, liquids, or solids)	Yes
Acute toxicity (any route of exposure)	Yes
Skin corrosion or irritation	Yes
Serious eye damage or eye irritation	Yes
Respiratory or skin sensitization	Yes
Germ cell mutagenicity	Yes
Specific target organ toxicity (single or repeated exposure)	Yes

The categories not mentioned are not relevant for the product.

Section 313 Toxic Chemicals (40 CFR 372.65)

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

Components	CAS-No.	Concentration
1-Butanol	71-36-3	10- 15%

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

This material does not contain any components with a section 302 EHS TPQ.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

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

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Components	CAS-No.	Reportable quantity
1-Butanol	71-36-3	5000 lb

TSCA Lists**US. TSCA Section 12(b) Export Notification (40 CFR 707)**

Components	CAS-No.
Modified thiocarbamate	*****
Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), C,C'-dibutyl ester	39142-36-4

TSCA - 5(a) Significant New Use Rule List of Chemicals

Components	CAS-No.
Modified thiocarbamate See 40 CFR § 721.10144	*****
Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), C,C'-dibutyl ester See 40 CFR § 721.10084	39142-36-4

15.3 State Regulations**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

This product is not sold or intended to be sold as a "consumer product" as defined under California's Proposition 65 statute and regulations. If you require information, please contact your local sales representative.

SECTION 16: Other information**NFPA (National Fire Protection Association) - Classification**

Health	3 serious
Flammability	3 serious
Instability or Reactivity	0 minimal

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Further information

- Distribute new edition to clients
- Update
- See section 2

Date Prepared: 02/19/2019**Key or legend to abbreviations and acronyms used in the safety data sheet**

- | | |
|---------|---|
| - C | Ceiling limit |
| - TWA | 8-hour, time-weighted average |
| - ACGIH | American Conference of Governmental Industrial Hygienists |
| - OSHA | Occupational Safety and Health Administration |
| - NTP | National Toxicology Program |
| - IARC | International Agency for Research on Cancer |
| - NIOSH | National Institute for Occupational Safety and Health |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.