

# Busan 30WB



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Europe

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

**Product name** Busan 30WB  
**Physical state** Liquid.

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

##### Use of the substance/mixture

**Industry:** LEATHER / Pulp & Paper  
**Product use:** Biocide

##### Uses advised against

None.

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

**Manufacturer** n.v. Buckman Laboratories .  
Wondelgemkaai 159  
9000 Gent - **BELGIUM**  
0032 (0)9 257 92 11

**Distributor** n.v. Buckman Laboratories .  
Wondelgemkaai 159  
9000 Gent - **BELGIUM**  
0032 (0)9 257 92 11

**e-mail address of person responsible for this SDS** sds@buckman.com

#### 1.4 Emergency telephone number

##### Supplier

**Telephone number** 0032 (0)9 257 93 00

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Product name:

Busan 30WB

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

Hours of operation 24/7

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302

Acute Tox. 2, H330

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

Aquatic Acute 1, H400 (M=10)

Aquatic Chronic 1, H410

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H330 - Fatal if inhaled.

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

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

#### Precautionary statements

##### Prevention

P280 - Wear protective gloves: 1 - 4 hours (breakthrough time): Recommended: Chemical-resistant gloves. (nitrile, neoprene, polyvinyl chloride (PVC), butyl rubber).  
Wear eye or face protection.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour or spray.

##### Response

P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

##### Storage

P405 - Store locked up.

##### Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazardous ingredients

(benzothiazol-2-ylthio)methyl thiocyanate  
Amides, tall-oil fatty, N,N-di-Me  
ethanediol

#### Supplemental label elements

Not applicable.

### 2.3 Other hazards

Product name:

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## SECTION 2: Hazards identification

Other hazards which do not result in classification None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Mixture

Product/ingredient name	Identifiers	%	Classification	Type
			Regulation (EC) No. 1272/2008 [CLP]	
(benzothiazol-2-ylthio) methyl thiocyanate	EC: 244-445-0 CAS: 21564-17-0 Index: 613-119-00-3	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
Amides, tall-oil fatty, N, N-di-Me	REACH #: 01-2119983524-29 EC: 269-665-4 CAS: 68308-74-7	≥10 - ≤25	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
Alcohols, C11-15-secondary, ethoxylated ethanediol	CAS: 68131-40-8  REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≤10  ≤5	Eye Irrit. 2, H319  Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	[1]  [1] [2]
<b>See Section 16 for the full text of the H statements declared above.</b>				

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

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## SECTION 4: First aid measures

<b>Inhalation</b>	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

<b>Eye contact</b>	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	No specific data.
<b>Skin contact</b>	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	No specific treatment.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
Danger for decomposition with formation of HCN

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

**Spill** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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## SECTION 6: Accidental release measures

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

#### Recommendations

Not available.

#### Industrial sector specific solutions

Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
ethanediol	<b>EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b> TWA: 20 ppm 8 hours. TWA: 52 mg/m <sup>3</sup> 8 hours. STEL: 40 ppm 15 minutes. STEL: 104 mg/m <sup>3</sup> 15 minutes.

#### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures





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## SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): Recommended: Chemical-resistant gloves. (nitrile, neoprene, polyvinyl chloride (PVC), butyl rubber)
- Body protection** : Wear suitable protective clothing, gloves and eye/face protection. Recommended: Wear work clothing with long sleeves. Chemical-resistant protective suit.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective shoes.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: full-face mask. Filter type: organic vapour filter (Type A), inorganic gases/vapours filter (Type B), acid gas filter (Type E), ammonia (Type K) and particulate filter.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid. [Ivory emulsion]
Odour	Organic.
pH	2 to 4
Melting point/freezing point	0°C
Initial boiling point and boiling range	100°C
Flash point	Closed cup: >100°C
Density	1.08 to 1.15 g/cm <sup>3</sup> [25°C (77°F)]
Viscosity	Dynamic (room temperature): 300 to 1500 mPa·s

### 9.2 Other information

No additional information.



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## SECTION 10: Stability and reactivity

**10.1 Reactivity** No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** The product is stable.

**10.3 Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** No specific data.

**10.5 Incompatible materials** No specific data.

**10.6 Hazardous decomposition products** Danger for decomposition with formation of HCN

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Busan 30WB  (benzothiazol-2-ylthio) methyl thiocyanate	LC50 Inhalation Dusts and mists	Rat	0.439 mg/l	4 hours	
	LD50 Dermal	Rabbit	>2 g/kg	-	
	LD50 Oral	Rat - Female	1 g/kg	-	
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.0671 mg/l Active ingredient: 80%	4 hours	
	LD50 Dermal	Rabbit	10 g/kg	-	
	LD50 Dermal	Rat	>5 g/kg	-	
	LD50 Oral	Rat	717 mg/kg Active ingredient: 80%	-	
	Amides, tall-oil fatty, N,N-di-Me	LD50 Dermal	Mouse	>5000 mg/kg	-
		LD50 Dermal	Rabbit - Male	7128 mg/kg Based on similar product. (Active ingredient : 90% )	-
		LD50 Oral	Rabbit	>5000 mg/kg Based on similar product.	-
	LD50 Oral	Rat - Female	5000 to 10000 mg/kg Based on similar product. (Active ingredient : 90% )	-	
ethanediol	LD50 Oral	Rat	4700 mg/kg	-	

**Conclusion/Summary** Not available.

#### Irritation/Corrosion

Product name:

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## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
(benzothiazol-2-ylthio) methyl thiocyanate	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Amides, tall-oil fatty, N,N-di-Me	Eyes - Cornea opacity	Rabbit	0	-	-
	Eyes - Iris lesion	Rabbit	0	-	-
	Eyes - Redness of the conjunctivae	Rabbit	0	-	48 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.3	-	24 hours
Alcohols, C11-15-secondary, ethoxylated	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-

**Skin** Irritating to skin.

**Eyes** Irritating to eyes.

### Sensitiser

Product/ingredient name	Route of exposure	Species	Result
Amides, tall-oil fatty, N,N-di-Me	skin	Mouse	Sensitising
ethanediol	skin	Guinea pig	Not sensitizing

**Skin** Sensitiser to skin

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Amides, tall-oil fatty, N,N-di-Me	OECD 471 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
ethanediol	OECD 471 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 471 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

**Conclusion/Summary** Not available.

### Carcinogenicity

**Conclusion/Summary** Not available.

### Reproductive toxicity

**Conclusion/Summary** Not available.

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## SECTION 11: Toxicological information

### Developmental toxicity

Conclusion/Summary Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethane-1,2-diol	Category 2	Oral	kidneys

### Aspiration hazard

Not available.

Information on likely routes of exposure Not available.

### Potential acute health effects

Inhalation	Fatal if inhaled.
Ingestion	Harmful if swallowed. Irritating to mouth, throat and stomach.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No specific data.
Ingestion	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

#### Long term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Amides, tall-oil fatty, N,N-di-Me	Sub-acute NOAEL Oral	Rat	1000 mg/kg	14 days
	Chronic NOAEL Oral	Rat	50 mg/kg	-

Conclusion/Summary Not available.

**General** Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Busan 30WB  (benzothiazol-2-ylthio) methyl thiocyanate	Acute EC50 0.1 mg/l	Algae - Selenastrum capricornutum	96 hours
	Acute EC50 0.06 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.037 mg/l	Fish - Pimephales promelas	96 hours
	Acute EC50 0.43 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 15.3 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 23 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7.3 µg/l Fresh water	Fish - Oncorhynchus tshawytscha - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Amides, tall-oil fatty, N,N-di-Me	Chronic NOEC 0.89 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.34 ppb	Fish - Oncorhynchus mykiss	60 days
	Acute EC50 0.75 mg/l	Daphnia	48 hours
Alcohols, C11-15-secondary, ethoxylated ethanediol	Acute EC50 >1000 mg/l Fresh water	Micro-organism	3 hours
	Acute LC50 >1 mg/l	Fish	96 hours
	Chronic LOAEL >0.75 mg/l	Daphnia	21 days
	Chronic NEL 0.75 mg/l	Daphnia	21 days
	Acute LC50 4600 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 >100 mg/l	Algae	96 hours
	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Conclusion/Summary	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 15380 mg/l	Fish - Pimephales promelas	7 days
	Not available.		

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Amides, tall-oil fatty, N,N-di-Me  ethanediol	OECD 301 301F Ready Biodegradability - Manometric Respirometry Test	69 % - Readily - 28 days	-	-
	OECD 301A 301A Ready Biodegradability - DOC Die-Away Test	90 to 100 % - Readily - 10 days	-	-
Conclusion/Summary Not available.				

Product name:

Busan 30WB

## SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
(benzothiazol-2-ylthio) methyl thiocyanate	-	-	Not readily
Amides, tall-oil fatty, N,N-di-Me	-	-	Readily
Alcohols, C11-15-secondary, ethoxylated	-	-	Readily
ethanediol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
(benzothiazol-2-ylthio) methyl thiocyanate	3.3	208.93	low
Alcohols, C11-15-secondary, ethoxylated	5.9	-	high
ethanediol	-1.36	<100	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Mobility** Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** Not applicable.

**vPvB** Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** Yes.

#### Packaging





**Methods of disposal** The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Product name:

Busan 30WB

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN2810	UN2810	UN2810	UN2810
<b>14.2 UN proper shipping name</b>	TOXIC LIQUID, ORGANIC, N.O.S. (benzothiazol-2-ylthio) methyl thiocyanate)	TOXIC LIQUID, ORGANIC, N.O.S. (benzothiazol-2-ylthio) methyl thiocyanate)	TOXIC LIQUID, ORGANIC, N.O.S. (benzothiazol-2-ylthio) methyl thiocyanate). Marine pollutant (benzothiazol-2-ylthio) methyl thiocyanate)	Toxic liquid, organic, n. o.s. ((benzothiazol-2-ylthio)methyl thiocyanate)
<b>14.3 Transport hazard class(es)</b>	6.1 	6.1 	6.1 	6.1 
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
<b>Additional information</b>	<p>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p><b>Hazard identification number</b> 60</p> <p><b>Limited quantity</b> 100 ml</p> <p><b>Special provisions</b> 274 614</p> <p><b>Tunnel code</b> (D/E)</p> <p><b>Transport Category:</b> 2</p>	<p>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p><b>Special provisions</b> 274 614 802</p>	<p>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p><b>Emergency schedules (EmS)</b> F-A, S-A</p> <p><b>Special provisions</b> 274</p>	<p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p><b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L Packaging instructions: 654 <b>Cargo Aircraft Only</b> Quantity limitation: 60 L Packaging instructions: 662 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L Packaging instructions: Y641</p> <p><b>Special provisions</b> A3, A4, A137</p>

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



Product name:

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## SECTION 14: Transport information

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

#### Other EU regulations

##### Biocidal products regulation (528/2012/EU)

###### Uses

Fibre, leather, rubber and polymerised materials preservatives. PT 12: Slimicides.

###### Dose

Contact your local Buckman representative for applicable dosage.

#### Physical state

Liquid. [Ivory emulsion]

Avoid exposure. After accidental exposure, seek immediate medical attention. Do not induce vomiting.

Product waste and emptied containers should be disposed of in accordance with local waste regulations. Do not reuse container.

Do not allow to enter drains or watercourses.

#### Ozone depleting substances (1005/2009/EU)

Ingredient name	Status
Not listed.	

#### Prior Informed Consent (PIC) (649/2012/EU)

Ingredient name	Annex	Status
Not listed.		

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### 15.2 Chemical safety assessment

Not applicable.

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## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302	On basis of test data
Acute Tox. 2, H330	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400 (M=10)	On basis of test data
Aquatic Chronic 1, H410	Calculation method

### Full text of abbreviated H statements

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H373 (oral) May cause damage to organs through prolonged or repeated exposure if swallowed.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Acute Tox. 2, H330 ACUTE TOXICITY (inhalation) - Category 2  
 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4  
 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1  
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1  
 Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3  
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2  
 Skin Sens. 1, H317 SKIN SENSITISATION - Category 1  
 Skin Sens. 1B, H317 SKIN SENSITISATION - Category 1B  
 STOT RE 2, H373 (oral) SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (oral) - Category 2

Date of printing 07/06/2018

Date of issue/ Date of revision 11/05/2018

Date of previous issue 11/05/2018

Version 6.03

This version supersedes any version issued before this date.

### Notice to reader

Product name:

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## SECTION 16: Other information

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No warranty with regard to the properties of the material is hereby expressed or implied. Final determination of suitability for purpose 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.

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# Busan 30WB



## REGULATORY FACT SHEET

### Food Contact

***FDA - US Food And Drug Administration. CFR - Code of Federal Regulations Title 21 (version April 2017):***

The product is compliant with the following chapters:

§ 176.300 - Slimicides.

***BfR Recommendations on Food Contact Materials (Version September 2017):***

The product is compliant with the following chapters:

XXXVI: Paper and board for food contact.

### Ecolabel

#### ***Nordic Swan***

The product is not compliant with Nordic Ecolabelling of Tissue Paper Version 5.3

The product is not compliant with Nordic Ecolabelling of Paper Products - Chemical Module Version 2.3

The product has not been registered on My Swan Account, the online database of Nordic Ecolabelling

#### ***EU - Flower***

The product is not compliant with EU flower ecolabel for tissue paper (2009/568/EU)

The product is not compliant with EU flower ecolabel for printed paper (2012/481/EU)

The product is not compliant with EU flower ecolabel for footwear (2009/563/EU)

The product is not compliant with EU flower ecolabel for copying and graphic paper (2011/332/EU)

#### ***Blaue Engel***

The product is not compliant with RAL-UZ 5: Sanitary Paper Products Edition July 2014

The product is compliant with RAL-UZ 14: Recycled Paper Edition July 2014

The product is compliant with RAL-UZ 56: Recycled Cardboard Edition July 2014

The product is compliant with RAL-UZ 72: Printing and Publication Papers primarily made of waste paper Edition July 2014

The product is compliant with RAL-UZ 117: Low-Emission Upholstered Furniture Edition of September 2009

The product is compliant with RAL-UZ 148: Low-Emission Upholstery Leathers Edition March 2015

The product is compliant with RAL-UZ 155: Footwear Edition February 2011

### Biocide Regulations

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Europe

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This biocide is in compliance with the European Biocidal Product Regulation (BPR 528/2012/EU). For relevant national biocide approvals, please, check section 15 of the relevant national SDS.

## Kosher and Kosher for Passover

This product is Kosher certified.

# MATERIALS OF CONSTRUCTION

## Compatible materials

This product is compatible with the following materials:

Polyethylene High Density  
Polyethylene Low Density  
Polypropylene  
Rigid PVC  
Silicone Rubber  
Teflon  
Van Leer Test Liner 136

## Incompatible materials

This product is incompatible with the following materials:

304 Stainless steel  
316 Stainless steel  
Admiralty Brass  
Buna-N Rubber  
C1010 Mild Steel  
C1020 Mild Steel  
Flexible PVC  
Neoprene  
Tygon R3603  
Viton

### Contact Details

For Regulatory content questions, please contact the Regulatory Affairs team on the e-mail address [sds@buckman.com](mailto:sds@buckman.com)

For questions about the materials of construction, please contact the Field Equipment Team EMEA on the e-mail address [FieldEquipmentDep\\_EMEA@buckman.com](mailto:FieldEquipmentDep_EMEA@buckman.com).

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Validated by Regulatory Affairs Team and Field Equipment Team of Buckman EMEA.

This document can be considered as an official statement  
This version supersedes any version issued before this date.

### Notice to reader

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**Product name:**

**Busan 30WB**

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