ACCO Brands Australia Pty Ltd

Version No: **1.2** Safety Data Sheet according to WHS and ADG requirements

Issue Date: 16/01/2018 Print Date: 07/03/2016 Initial Date: 11/02/2016 S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# **Product Identifier**

Product name	Beer Master Machine Glass Wash	
Synonyms	Not Available	
Other means of identification	5L - 637120700	

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

Relevant identified uses Detergent for machine washing of glasses

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

Registered company name	ACCO Brands Australia Pty Ltd	
Address	17-19 Waterloo Street, Queanbeyan 2620 NSW Australia	
Telephone	+61-2-96740900	
Fax	+61-2-96740910	
Website	www.accobrands.com.au	
Email	sds.anz@acco.com	

### Emergency telephone number

Association / Organisation	Poisons Information Line	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	13 11 26	

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

### Label elements

GHS label elements	
SIGNAL WORD	DANGER

### Hazard statement(s)

H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	

### Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	

P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

# Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P363	Wash contaminated clothing before reuse.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	

# Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

# Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
141-43-5	<10	monoethanolamine
96910-36-0	<10	isooctylphenol, ethoxylated, propoxylated
5064-31-3	<10	nitrilotriacetic acid, trisodium salt
13590-71-1	<10	phosphonic acid, monomethyl ester

# **SECTION 4 FIRST AID MEASURES**

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# Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

### Special hazards arising from the substrate or mixture

 Fire Incompatibility
 None known.

### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

# Precautions for safe handling Safe handling Notice the content of the content with incompatible materials. Noter information

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Formaldehyde:</li> <li>is a strong reducing agent</li> <li>may polymerise in air unless properly inhibited (usually with methanol up to 15%) and stored at controlled temperatures</li> <li>will polymerize with active organic material such as phenol</li> <li>reacts violently with strong oxidisers, hydrogen peroxide, potassium permanganate, acrylonitrile, caustics (sodium hydroxide, yielding formic acid and flammable hydrogen), magnesium carbonate, nitromethane, nitrogen oxides (especially a elevated temperatures), peroxyformic acid</li> <li>is incompatible with strong acids (hydrochloric acid forms carcinogenic bis(chloromethyl)ether*), amines, ammonia, aniline, bisulfides, gelatin, iodine, magnesite, phenol, some monomers, tannins, salts of copper, iron, silver.</li> <li>acid catalysis can produce impurities: methylal, methyl formate</li> <li>Aqueous solutions of formaldehyde:</li> <li>slowly oxidise in air to produce formic acid</li> <li>attack carbon steel</li> </ul>

Beer Mas	ter Machine	Glass Was	h
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<ul> <li>Flammable and/or toxic gases are generated by the combination of aldehyde; a cyclic trimer, thoxane (CH2O3), may also form</li> <li>Flammable and/or toxic gases are generated by the combination of aldehydes with azo, diazo compounds, dithiocarbamates, nitrides, and strong reducing agents</li> <li>*The empirical equation may be used to determine the concentration of bis(chloromethyl)ether (BCME) formed by reaction with HCI:</li> <li>log(BCME)ppb = -2.25 + 0.67• log(HCHO) ppm + 0.77• log(HCI)ppm</li> <li>Assume values for formaldehyde, in air, of 1 ppm and for HCI of 5 ppm, resulting BCME concentration, in air, would be 0.02 ppb.</li> <li>Monoethanolamine</li> <li>is a strong organic base</li> <li>reacts violently with strong oxidisers, strong acids (with spattering)</li> <li>is incompatible with acetic acid, acetic anhydride, acrolein, acrylates, acrylic acid, acrylonitrile, alcohols, aldehydes, alkali metals, alkylene oxides, substitu allyls, caprolactam solution, cellulose nitrate, chlorosulfonic acid, cresols, epichlorohydrin, glycols, halogenated hydrocarbons, isocyanates, ketones, mes oxide, oleum, organic anhydrides, phenols, beta-propiolactone, vinyl acetate</li> <li>forms explosive mixture with sodium perchlorate</li> <li>reacts with iron forming tris-ethanolamineiron</li> <li>may undergo a self-sustaining thermal decomposition when heated in excess of 250 degrees C</li> <li>attacks aluminium, copper, lead, tin, zinc, and their alloys</li> <li>attacks plastics, coatings an rubber</li> </ul>
None known

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	monoethanolamine	Ethanolamine	7.5 mg/m3 / 3 ppm	15 mg/m3 / 6 ppm	Not Available	Not Available

EMERGENCY LIMITS					
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
monoethanolamine	Ethanolamine		6 ppm	6 ppm	1000 ppm
nitrilotriacetic acid, trisodium salt	Nitrilotriacetic acid, trisodium salt, monohydrate		9.2 mg/m3	100 mg/m3	110 mg/m3
Ingradiant		Po			
ingreatent		Rev	VISeu IDLH		
monoethanolamine	1,000 ppm	30 p	opm		
isooctylphenol, ethoxylated, propoxylated	Not Available	Not	Available		
nitrilotriacetic acid, trisodium salt	Not Available	Not	Available		
phosphonic acid, monomethyl ester	Not Available	Not	Available		

### Exposure controls

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Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required.
Personal protection	
Eye and face protection	<ul> <li>Chemical goggles.</li> <li>Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid</li> </ul>

	▶ all possible skin contact.
	<ul> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where
	the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior
	to the application.
	The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final
	choice.
	Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:
	<ul> <li>frequency and duration of contact,</li> </ul>
	<ul> <li>chemical resistance of glove material,</li> </ul>
	<ul> <li>glove thickness and</li> </ul>
	► dexterity
	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes
	according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
	When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS
	2161.10.1 or national equivalent) is recommended.
	Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
Body protection	See Other protection below
	► Overalls.
	▶ P.V.C. apron.
Other protection	▶ Barrier cream.
·	▶ Skin cleansing cream.
	► Eye wash unit.
Thermal hazards	Not Available

### Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Beer Master Machine Glass Wash

Material	CPI
BUTYL	A
NEOPRENE	A
VITON	A
BUTYL/NEOPRENE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	A clear liquid		
Physical state	Liquid	Relative density (Water = 1)	1.00-1.05
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	10-12	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available

### **Respiratory protection**

Type ABEK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	ABEK-AUS P2	-	ABEK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	ABEK-AUS / Class 1 P2	-
up to 100 x ES	-	ABEK-2 P2	ABEK-PAPR-2 P2 ^

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

# Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.		
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Ethanolamine is an intermediate metabolites of certain animal producing phospholipids and choline. In poisoned rats, monoethanolamine may cause excessive tear secretion, hair erection, defective vertebral curvature, unsteady gait, weight loss, discharge around the eye, anus and genitalia.		
Skin Contact	The material can produce chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Oral and skin exposure to ethanolamine may produce weakness, abdominal distension, emaciation and damage to the respiratory tract, intestines, thymus, kidneys and the skin (ulceration and burn like effect). These are worse with skin exposure due to a high absorption rate. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. A drop of ethanolamine into eye causes injury slightly less than that produced by ammonia say grade 9, on a 1 to10 scale, but that into the rabbit eyes (0.005 ml) caused severe eye injury with vascularisation, deformation, severe iris inflammation and conjunctival irritation.		
Chronic	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.		
	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.	tisation reaction in s se a sensitisation re	ome persons compared to the general population. action in some persons compared to the general
	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.	tisation reaction in s se a sensitisation re	ome persons compared to the general population. action in some persons compared to the general
Beer Master Machine Glass	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.	tisation reaction in s se a sensitisation re IRRITATION	ome persons compared to the general population. action in some persons compared to the general
Beer Master Machine Glass Wash	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.           TOXICITY           Not Available	tisation reaction in s se a sensitisation re IRRITATION Not Available	ome persons compared to the general population. action in some persons compared to the general
Beer Master Machine Glass Wash	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.           TOXICITY           Not Available	IRRITATION IRRITATION IRRITATION IRRITATION	ome persons compared to the general population. action in some persons compared to the general
Beer Master Machine Glass Wash	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.           TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 1020 mg/kg <sup>[2]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 0.76	me persons compared to the general population. action in some persons compared to the general
Beer Master Machine Glass Wash	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1020 mg/kg <sup>[2]</sup> Oral (rat) LD50: 1091.4 mg/kg <sup>[1]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 0.76 Skin (rabbit):505 r	me persons compared to the general population. action in some persons compared to the general mg - SEVERE ng open-moderate
Beer Master Machine Glass Wash monoethanolamine	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1020 mg/kg <sup>[2]</sup> Oral (rat) LD50: 1091.4 mg/kg <sup>[1]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 505 n	me persons compared to the general population. action in some persons compared to the general mg - SEVERE ng open-moderate
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Beer Master Machine Glass Wash monoethanolamine isooctylphenol, ethoxylated, propoxylated	There is some evidence that inhaling this product is more likely to cause a sensi There is limited evidence that, skin contact with this product is more likely to cau population.           TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 1020 mg/kg <sup>[2]</sup> Oral (rat) LD50: 1091.4 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: 55000 mg/kgt <sup>[2]</sup> Labeletine (rat) LD50: >5000 mg/kgt <sup>[2]</sup>	IRRITATION Not Available IRRITATION Eye (rabbit): 0.76 Skin (rabbit):505 r	me persons compared to the general population.         action in some persons compared to the general         mg - SEVERE         ng open-moderate         IRRITATION         [BASF]         Eve (rabbit): irritant
Beer Master Machine Glass Wash monoethanolamine isooctylphenol, ethoxylated, propoxylated	There is some evidence that inhaling this product is more likely to cause a sensi         There is limited evidence that, skin contact with this product is more likely to cau         population.         TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 1020 mg/kg <sup>[2]</sup> Oral (rat) LD50: 1091.4 mg/kg <sup>[1]</sup> TOXICITY         dermal (rat) LD50: >5000 mg/kgt <sup>[2]</sup> Inhalation (rat) LC50: >1 mg//sgh <sup>[2]</sup> Open (rat) LD50: 2000 mg/kgt <sup>[2]</sup>	IRRITATION Not Available IRRITATION Not Available Skin (rabbit): 505 r	IRRITATION [BASF] Eye (rabbit): irritant Skin (rabbit): irritant

nitrilotriacetic acid, trisodium salt	Oral (rat) LD50: 300 mg/kg <sup>11</sup>		
	Skin (rabbit): non-irritating *		Skin (rabbit): non-irritating *
	ΤΟΧΙCITY	IRRIT	TATION
phosphonic acid,	Oral (rat) LD50: 1740 mg/kgE <sup>[2]</sup>	Eye (i	rabbit): 0.05 mg/24h-SEVERE
monometnyi ester		Skin (	(rabbit): 0.75 mg/24h-SEVERE
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute to extracted from RTECS - Register of Toxic Effect of chemical Substance</li> </ol>	xicity 2.* V s	alue obtained from manufacturer's SDS. Unless otherwise specified data
	1		
Beer Master Machine Glass Wash	Asthma-like symptoms may continue for months or even years after expore reactive airways dysfunction syndrome (RADS) which can occur follow of RADS include the absence of preceding respiratory disease, in a non to hours of a documented exposure to the irritant. A reversible airflow pe on methacholine challenge testing and the lack of minimal lymphocytic i of RADS. RADS (or asthma) following an irritating inhalation is an infree irritating substance. Industrial bronchitis, on the other hand, is a disorde (often particulate in nature) and is completely reversible after exposure of No significant acute toxicological data identified in literature search. WARNING: This substance has been classified by the IARC as Group	sure to the ng exposu atopic indi- ttern, on sp aflammatio uent disord r that occu eases. The 2B: Possit	e material ceases. This may be due to a non-allergenic condition known as re to high levels of highly irritating compound. Key criteria for the diagnosis vidual, with abrupt onset of persistent asthma-like symptoms within minutes pirometry, with the presence of moderate to severe bronchial hyperreactivity n, without eosinophilia, have also been included in the criteria for diagnosis der with rates related to the concentration of and duration of exposure to the urs as result of exposure due to high concentrations of irritating substance e disorder is characterised by dyspnea, cough and mucus production.
MONOETHANOLAMINE	<ul> <li>While it is difficult to generalise about the full range of potential health eff used in the manufacture of polyurethane and polyisocyanurate foams, it i effects.</li> <li>Many amine-based compounds can induce histamine liberation, w bronchoconstriction or bronchial asthma and rhinitis.</li> <li>Systemic symptoms include headache, nausea, faintness, anxiety, a of the skin), urticaria (hives), and facial edema (swelling). Systemic are usually transient.</li> <li>Typically, there are four routes of possible or potential exposure: inhalati <b>Inhalation</b>:</li> <li>Inhalation of vapors may, depending upon the physical and chemical pro to severe irritation of the tissues of the nose and throat and can irritate t Products with higher vapour pressures have a greater potential for high The material may cause skin irritation after prolonged or repeated exposis scaling and thickening of the skin.</li> <li>Asthma-like symptoms may continue for months or even years after expore reactive airways dysfunction syndrome (RADS) which can occur follow of RADS include the absence of preceding respiratory disease, in a non to hours of a documented exposure to the irritant. A reversible airflow pa on methacholine challenge testing and the lack of minimal lymphocytic i of RADS. RADS (or asthma) following an irritating inhalation is an infree irritating substance. Industrial bronchitis, on the other hand, is a disorde (often particulate in nature) and is completely reversible after exposure of * Bayer</li> </ul>	ects posed a greed the nich, in turn decrease i effects (the pon, skin cor- poerties of the lungs. er airborne ure and ma sure to the ng exposu- atopic indi- tem, on sp filammatio uent disorr r that occu- eases. The	by exposure to the many different amine compounds, characterised by those at overexposure to the majority of these materials may cause adverse health n, can trigger allergic and other physiological effects, including n blood pressure, tachycardia (rapid heartbeat), itching, erythema (reddening ose affecting the body) that are related to the pharmacological action of amines ntact, eye contact, and ingestion. The specific product and the degree and length of exposure, result in moderate concentrations. This increases the probability of worker exposure. ay produce on contact skin redness, swelling, the production of vesicles, e material ceases. This may be due to a non-allergenic condition known as re to high levels of highly irritating compound. Key criteria for the diagnosis vidual, with abrupt onset of persistent asthma-like symptoms within minutes birometry, with the presence of moderate to severe bronchial hyperreactivity n, without eosinophilia, have also been included in the criteria for diagnosis der with rates related to the concentration of and duration of exposure to the urs as result of exposure due to high concentrations of irritating substance e disorder is characterised by dyspnea, cough and mucus production.
ISOOCTYLPHENOL, ETHOXYLATED, PROPOXYLATED	Human beings have regular contact with alcohol ethoxylates through a cleaning products . Exposure to these chemicals can occur through inge volumes well above a reasonable intake level would have to occur to pro- has ever been reported. Multiple studies investigating the acute toxicity of terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastroint lethargy. Similarly, slight to severe irritation of the skin or eye was genera rats. The chemical shows no indication of being a genotoxin, carcinoge Both laboratory and animal testing has shown that there is no evidence reproductive or developmental effects were observed. The material may produce moderate eye irritation leading to inflammatic The material may cause skin irritation after prolonged or repeated exposi- scaling and thickening of the skin. for similar material isooctylphenol, ethoxylated (BASF Citowett)	ariety of ini stion, inhal luce any to alcohol et astinal irrita ted when u h, or mutag or alcohol of n. Repeate ure and ma	dustrial and consumer products such as soaps, detergents, and other lation, or contact with the skin or eyes. Studies of acute toxicity show that ixic response. Moreover, no fatal case of poisoning with alcohol ethoxylates hoxylates have shown that the use of these compounds is of low concern in ation such as ulcerations of the stomach, pilo-erection, diarrhea, and undiluted alcohol ethoxylates were applied to the skin and eyes of rabbits and gen (HERA 2007). ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse ed or prolonged exposure to irritants may produce conjunctivitis. ay produce on contact skin redness, swelling, the production of vesicles,
NITRILOTRIACETIC ACID, TRISODIUM SALT	Nitrilotriacetic acid and its water-soluble metal complexes occur in hous toxicity. They may cause cancer of the kidney, bladder and urinary tract in do not cause skin sensitisation or irritation but may accumulate in the for In humans, they are poorly absorbed from the intestines and rapidly excr WARNING: This substance has been classified by the IARC as Group Asthma-like symptoms may continue for months or even years after expr reactive airways dysfunction syndrome (RADS) which can occur follow of RADS include the absence of preceding respiratory disease, in a non to hours of a documented exposure to the irritant. A reversible airflow pe on methacholine challenge testing and the lack of minimal lymphocytic i of RADS. RADS (or asthma) following an irritating inhalation is an infred irritating substance. Industrial bronchitis, on the other hand, is a disord (often particulate in nature) and is completely reversible after exposure	ehold dete some expe tal skeleto eted in the 2B: Possit sure to the ng exposu atopic indi tern, on sp fifammatio uent disorr r that occu eases. The	rgents and drinking water. Their ability to chelate metal ions accounts for the erimental animals but no foetal or genetic damage has been recorded. They n. urine. oly Carcinogenic to Humans. er material ceases. This may be due to a non-allergenic condition known as re to high levels of highly irritating compound. Key criteria for the diagnosis vidual, with abrupt onset of persistent asthma-like symptoms within minutes birometry, with the presence of moderate to severe bronchial hyperreactivity n, without eosinophilia, have also been included in the criteria for diagnosis der with rates related to the concentration of and duration of exposure to the tris as result of exposure due to high concentrations of irritating substance e disorder is characterised by dyspnea, cough and mucus production.

PHOSPHONIC ACID, MONOMETHYL ESTER	The material may produce severe irritation to the eye causing conjunctivitis. The material may cause severe skin irritation after prolonged or vesicles, scaling and thickening of the skin. Repeated exposure Asthma-like symptoms may continue for months or even years reactive airways dysfunction syndrome (RADS) which can oc of RADS include the absence of preceding respiratory disease to hours of a documented exposure to the irritant. A reversible on methacholine challenge testing and the lack of minimal lym of RADS. RADS (or asthma) following an irritating inhalation i irritating substance. Industrial bronchitis, on the other hand, is (often particulate in nature) and is completely reversible after or	pronounced inflammation. Repeated or repeated exposure and may produ- es may produce severe ulceration. after exposure to the material cease cur following exposure to high levels e, in a non-atopic individual, with abr airflow pattern, on spirometry, with ti phocytic inflammation, without eosir s an infrequent disorder with rates re a disorder that occurs as result of exposure ceases. The disorder is ch	d or prolonged exposure to irritants may produce uce on contact skin redness, swelling, the production of as. This may be due to a non-allergenic condition known as s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity nophilia, have also been included in the criteria for diagnosis elated to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance aracterised by dyspnea, cough and mucus production.
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	*	Reproductivity	$\otimes$
Serious Eye Damage/Irritation	*	STOT - Single Exposure	$\otimes$
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	$\otimes$
Mutagenicity	$\odot$	Aspiration Hazard	$\otimes$
		Legend: 🗙	- Data available but does not fill the criteria for classification

Data required to make classification available

🚫 – Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
monoethanolamine	LC50	96	Fish	=75mg/L	1
monoethanolamine	EC50	48	Crustacea	32.6mg/L	2
monoethanolamine	NOEC	504	Crustacea	0.85mg/L	2
monoethanolamine	EC50	72	Algae or other aquatic plants	2.1mg/L	2
monoethanolamine	EC50	72	Algae or other aquatic plants	ca.2.5mg/L	2
nitrilotriacetic acid, trisodium salt	LC50	96	Fish	<16.9-20.2mg/L	1
nitrilotriacetic acid, trisodium salt	EC50	48	Crustacea	560- 1000mg/L	2
nitrilotriacetic acid, trisodium salt	EC50	72	Algae or other aquatic plants	>91.5mg/L	2
nitrilotriacetic acid, trisodium salt	NOEC	72	Algae or other aquatic plants	1.43mg/L	2
Legend:	Extracted from 1. IUCLI Aquatic Toxicity Data (E Bioconcentration Data 7	D Toxicity Data 2. Europe ECHA R Estimated) 4. US EPA, Ecotox datab 7. METI (Japan) - Bioconcentration	egistered Substances - Ecotoxicological Info vase - Aquatic Toxicity Data 5. ECETOC Aqua Data 8. Vendor Data	rmation - Aquatic Toxicity 3. EPIWII atic Hazard Assessment Data 6. NI	l Suite V3.12 - TE (Japan) -

For monoethanolamine: log Kow: -1.31; Koc: 5 Half-life (hr); air: 11 Henry's atm m3 /mol: 4.00E-08; BOD 5: 0.8-1.1,0%; Biodegradability: BOD5: 800 mg/g>70%: BOD of the ThOD (OECD 301F)>90%: DOC reduction (OECD 301A) COD: 1.27-1.28ThOD: 2.49BCF: <1.

Environmental Fate: Monoethanolamine will leach into soil. It is expected to exist solely as a vapor in the ambient atmosphere. Models estimate that this material will preferentially partition to water versus air or soil.. Vapour-phase is degraded in the atmosphere by reaction with photochemically produced hydroxyl radicals. The potential for mobility in the soil is high. Degradation and Persistence: The material is readily biodegradable, and will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Monoethanolamine is biodegraded or transformed into other compounds under both aerobic and anaerobic conditions even at concentrations greater than 1500 mg/kg. DO NOT discharge into sewer or waterway

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
monoethanolamine	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
monoethanolamine	LOW (LogKOW = -1.31)
Mobility in soil	

Ingredient	Mobility
monoethanolamine	HIGH (KOC = 1)

# SECTION 13 DISPOSAL CONSIDERATIONS

	Containers may still present a chemical hazard/ danger when empty.
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some
	areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
	▶ Reuse
	▶ Recycling
Product / Packaging	Disposal (if all else fails)
disposal	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be
	possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.
	Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.
	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
	Where in doubt contact the responsible authority.
	Recycle wherever possible.
	Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
	can be identified
	<ul> <li>Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after</li> </ul>
	admixture with suitable combustible material)
	Longentaminate empty contrainers. Observa all label safeguards until containers are cleaned and destroyed
	בסטטוומרווויומני פרוויזין טוומוויסיס. טוסטוייד מוומוסי סמפעומיט עוומו טוומוויסיס מיב טוכמווכע מוע עבטו טיעע.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

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

l N	ΙΟΝΟΕΤΗΔΝΟΙ ΔΜΙΝΕ	(141-43-5) IS FOUND	ON THE FOLL	OWING REGULA	ATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

# ISOOCTYLPHENOL, ETHOXYLATED, PROPOXYLATED(96910-36-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

### NITRILOTRIACETIC ACID, TRISODIUM SALT(5064-31-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# PHOSPHONIC ACID, MONOMETHYL ESTER(13590-71-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status		
Australia - AICS	N (isooctylphenol, ethoxylated, propoxylated)		
Canada - DSL	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester)		
Canada - NDSL	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester; monoethanolamine; nitrilotriacetic acid, trisodium salt)		
China - IECSC	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester)		
Europe - EINEC / ELINCS / NLP	N (isooctylphenol, ethoxylated, propoxylated)		
Japan - ENCS	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester)		
Korea - KECI	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester)		
New Zealand - NZIoC	N (phosphonic acid, monomethyl ester)		
Philippines - PICCS	N (phosphonic acid, monomethyl ester)		
USA - TSCA	N (isooctylphenol, ethoxylated, propoxylated; phosphonic acid, monomethyl ester)		
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

# **SECTION 16 OTHER INFORMATION**

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
nitrilotriacetic acid, trisodium salt	18662-53-8, 5064-31-3

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit<sub>o</sub> IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL : No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOX Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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