SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 06-Aug-2021 **Version** 2

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

1.1. Product identifier

Product Code 502500, 502505, 502555

Product Name AUTO MAGIC WHEEL MAGIC

Unique Formula Identifier (UFI) Code SN84-U06U-S00C-T6EC

Contains ETHANOL, 2,2'-IMINOBIS-, Sulfuric Acid

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

Recommended Use Wheel Cleaner. For professional use only.

Uses advised against Uses other than recommended use.

1.3. Details of the supplier of the safety data sheet

Manufacturer
ITW Evercoat
6600 Cornell Road
Cincinnati, Ohio 45242
Telephone: 513-489-7600
For further information, please contact

E-mail address: Info@automagic.com

1.4. Emergency telephone number

24-hour emergency phone number - CHEMTREC: 1-800-424-9300 INTERNATIONAL: 1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 1 Sub-category A - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains ETHANOL, 2,2'-IMINOBIS-, Sulfuric Acid

Signal word
Danger

Hazard statements

Hazard statements	H314 - Causes severe skin burns and eye damage H411 - Toxic to aquatic life with long lasting effects
Precautionary Statements - EU (§28, 1272/2008)	P260 - Do not breathe dust/fume/gas/mist/vapors/spray P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing and eye/face protection P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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 P321 - Specific treatment (see .? on this label) P391 - Collect spillage

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration No.	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium Hydroxide 1310-73-2	3 - 7		215-185-5	Skin Corr. 1A (H314)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-
ETHANOL, 2,2'-IMINOBIS- 111-42-2	1 - 5		203-868-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT RE 2 (H373)	-	-	-
Sulfuric Acid 7664-93-9	<0.1		231-639-5	Skin Corr. 1A (H314)	Eye Irrit. 2 :: 5%<=C<15% Skin Corr. 1A :: C>=15% Skin Irrit. 2 :: 5%<=C<15%	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Sodium Hydroxide 1310-73-2	325	1350	No data available	No data available	No data available
ETHANOL, 2,2'-IMINOBIS- 111-42-2	780	12982.9	No data available	No data available	No data available
Sulfuric Acid 7664-93-9	2140	No data available	0.375	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Remove to fresh air.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion Get immediate medical advice/attention. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

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

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Store away from other materials. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Identified uses
Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Sodium Hydroxide 1310-73-2	-	TWA: 2 mg/m³ STEL 4 mg/m³	-	TWA: 2.0 mg/m³	STEL: 2 mg/m³
ETHANOL, 2,2'-IMINOBIS- 111-42-2	-	TWA: 0.46 ppm TWA: 2 mg/m³ STEL 0.92 ppm STEL 4 mg/m³ H*	-	TWA: 10 mg/m³	TWA: 3 ppm TWA: 15 mg/m³ K*
Sulfuric Acid 7664-93-9	TWA: 0.05 mg/m³	TWA: 0.1 mg/m³ STEL 0.2 mg/m³	-	TWA: 0.05 mg/m³	TWA: 0.05 mg/m³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Sodium Hydroxide 1310-73-2	-	-	Ceiling: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	Ceiling: 2 mg/m³
ETHANOL, 2,2'-IMINOBIS- 111-42-2	-	-	TWA: 0.46 ppm TWA: 2 mg/m³ H*	TWA: 3 ppm TWA: 5 mg/m³ STEL: 6 ppm STEL: 30 mg/m³ A*	TWA: 0.46 ppm TWA: 2 mg/m³ iho*
Sulfuric Acid 7664-93-9	-	-	TWA: 0.05 mg/m³	TWA: 0.5 mg/m³	TWA: 0.05 mg/m³ STEL: 0.1 mg/m³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Sodium Hydroxide 1310-73-2	TWA: 2 mg/m³	-	-	-	TWA: 1 mg/m³ STEL: 2 mg/m³
ETHANOL, 2,2'-IMINOBIS- 111-42-2	TWA: 3 ppm TWA: 15 mg/m³	TWA: 0.11 ppm TWA: 0.5 mg/m³ H*	TWA: 1 mg/m³ Ceiling / Peak: 1 mg/m³ Skin	-	-
Sulfuric Acid 7664-93-9	TWA: 0.05 mg/m³	TWA: 0.1 mg/m³	TWA: 0.1 mg/m³ Ceiling / Peak: 0.1 mg/m³	-	TWA: 0.05 mg/m³
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Sodium Hydroxide 1310-73-2	STEL: 2 mg/m³	-	-	TWA: 0.5 mg/m³	-
ETHANOL, 2,2'-IMINOBIS- 111-42-2	TWA: 0.2 ppm TWA: 1 mg/m³ STEL: 0.6 ppm STEL: 3 mg/m³ Sk*	-	-	-	-
Sulfuric Acid 7664-93-9	TWA: 0.05 ppm STEL: 0.15 ppm	TWA: 0.05 mg/m³	-	TWA: 0.05 mg/m³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Sodium Hydroxide 1310-73-2	-	-	-	Ceiling: 2 mg/m³	STEL: 1 mg/m³ TWA: 0.5 mg/m³
ETHANOL,	-	-	-	TWA: 3 ppm	TWA: 9 mg/m³

2,2'-IMINOBIS- 111-42-2				TWA: 15 mg/m³ STEL: 6 ppm STEL: 22.5 mg/m³	
Sulfuric Acid 7664-93-9	-	-	TWA: 0.05 mg/m³	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	TWA: 0.05 mg/m³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 2 mg/m³	-	STEL: 2 mg/m³
ETHANOL, 2,2'-IMINOBIS- 111-42-2	TWA: 1 mg/m³ P*	-	-	TWA: 0.5 mg/m³ TWA: 0.11 ppm 0.11: STEL ppm 0.5: STEL mg/m³ K*	TWA: 0.46 ppm TWA: 2 mg/m³ vía dérmica*
Sulfuric Acid 7664-93-9	TWA: 0.05 mg/m³	TWA: 0.05 mg/m³	TWA: 0.05 mg/m³	TWA: 0.05 mg/m³ 0.05: STEL mg/m³	TWA: 0.05 mg/m³

Chemical name	Sweden	Switzerland	United Kingdom
Sodium Hydroxide 1310-73-2	-	TWA: 2 mg/m³ STEL: 2 mg/m³	STEL: 2 mg/m³
ETHANOL, 2,2'-IMINOBIS- 111-42-2	-	TWA: 1 mg/m³ STEL: 1 mg/m³ H*	-
Sulfuric Acid 7664-93-9	-	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³	TWA: 0.05 mg/m³ STEL: 0.15 mg/m³

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Face protection shield. Tight sealing safety goggles.

Hand protection Impervious gloves. Wear suitable gloves.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance	Clear
Color	No information available
Odor	Aromatic
Odor threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point / boiling range	100 °C	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	100 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	12.5-13.5	
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	No Data Available	None known
Relative density	No data available	None known
Bulk density	No data available	
Density	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available.

Eye contact (based on components). Corrosive to the eyes and may cause severe damage including blindness. Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Corrosive. (based on components). Causes burns. Specific test data for the substance or mixture is not available.

Ingestion Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Redness. Burning. May cause blindness.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3,118.30 mg/kg
ATEmix (dermal) 12,085.30 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
ETHANOL, 2,2'-IMINOBIS-	= 780 mg/kg (Rat)	= 11.9 mL/kg (Rabbit)	-
Sulfuric Acid	= 2140 mg/kg (Rat)	-	= 0.375 mg/L (Rat) 4 h

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
ETHANOL, 2,2'-IMINOBIS-	2.1 - 2.3: 96 h Pseudokirchneriella subcapitata mg/L EC50 7.8: 72 h Desmodesmus subspicatus mg/L EC50	1200 - 1580: 96 h Pimephales promelas mg/L LC50 static 4460 - 4980: 96 h Pimephales promelas mg/L LC50 flow-through 600 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	-	55: 48 h Daphnia magna mg/L EC50
Sulfuric Acid	-	500: 96 h Brachydanio rerio mg/L LC50 static	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
ETHANOL, 2,2'-IMINOBIS-	-2.18

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

Note: This information is not intended to convey all specific regulatory information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

IATA

14.1 UN number or ID number UN1719
14.2 Proper shipping name Caustic Alkali Liquid N.O.S (Sodium Hydroxide)
14.3 Transport hazard class(es) 8
14.4 Packing group III
14.5 Environmental hazard No
14.6 Special precautions for user

IMDG

14.1 UN number or ID number UN1719
14.2 Proper shipping name Caustic Alkali Liquid N.O.S (Sodium Hydroxide)
14.3 Transport hazard class(es) 8
14.4 Packing Group III
14.5 Environmental hazard No
14.6 Special precautions for user
14.7 Maritime transport in bulk according to IMO instruments

RID

14.1 UN/ID No UN1719
14.2 Proper shipping name Caustic Alkali Liquid N.O.S (Sodium Hydroxide)
14.3 Transport hazard class(es) 8

14.4 Packing Group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	

ADR

14.1 UN number or ID number	UN1719
14.2 Proper shipping name	Caustic Alkali Liquid N.O.S (Sodium Hydroxide)
14.3 Transport hazard class(es)	8
14.4 Packing Group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	

SECTION 15: Regulatory information

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
ETHANOL, 2,2'-IMINOBIS- 111-42-2	RG 49,RG 49bis

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure

Legend
SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision Date 06-Aug-2021

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet