According to 190/2006/EC (REACH), 1272/2008/EC (CLP) and GHS

Printing Date 05.18.2023 Revision 05.18.2023

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

1.1 PRODUCT IDENTIFIER/TRADE NAME:
STAR-FUSION MP/T

1.2 RELIVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
No further relevant information available.
Application of the Substance / the Mixture: Sealcoating for Pavements

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
Manufacturer/Supplier: Specialty Technology And Research, Incorporated (S.T.A.R., Inc.)
1150 Milepost Drive, Columbus, Ohio 43228
Tel: +1-614-870-0744 • Fax: +1-614-870-0598 • Toll Free +1-800-759-1912
Web Site: www.starseal.com

1.4 EMERGENCY TELEPHONE NUMBER:
ChemTel, Inc.
(800)255-3924, +1(813)248-0585

SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

The following classifications are applicable only to the general GHS regulations and not the Specific CLP regulation: H360
The following hazard statements are applicable only to the EU regulations and not the US GHS regulation: H360FD, H400, H410
Repr. 1 H360: May damage fertility of the unborn child

Health Hazard

Muta.	1B	H340	May cause genetic defects.
Carc.	1B	H350	May cause cancer.
Carc	2	H351	Suspected of causing cancer.
Repr.	1B	H360FD	May damage fertility. May damage the unborn child.

Environment
Aquatic Chronic 1 H411 Toxic to aquatic life with long lasting effects

Skin Sens. 1 H317 May cause an allergic skin reaction.

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/ECC or DIRECTIVE 1999/45/EC


T; Toxic

R45-46-60-61: May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.


Xi; Sensitizing

R43 Irritating to skin. May cause sensitization by skin contact.


N; Dangerous to the environment

R50/53; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment..

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008
The product is classified and labeled according to the Globally Harmonized System (GHS).


GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labeling:
Residues (Petroleum steam- cracked).
Benzo[a]pyrene
Asphalt
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol
Carbon black
Ethanol,
2,2'-iminobis-, N-coco alkyl derivs

Hazard statements
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H360FD, H410.
The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H360.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to environment.
P261	Avoid breathing mist/vapors/spray.
P281	Use personal protective equipment as required.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	If exposed or concerned: Get medical advice/attention.
P303+P330+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin well with water/shower.
P301+P330+P351	IF SWALLOWED, rinse mouth. DO NOT induce vomiting.
P305+P351+P33	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use for extinction: CO2, Powder. Do not use water.
P403+P233	Store in a well-ventilated place. Keep containers tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
Restricted to professional users.

Hazard description:
WHMIS-symbols:
D2A - Very toxic material causing other toxic effects

NFPA ratings (Scale 0-4)

Health = 2
Fire = 1
Reactivity = 0

HMIS ratings (Scale 0-4)

Health = *2
Fire = 1
Reactivity = 0
* - Indicates a long-term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances

14808-60-7 quartz
13463-67-7 titanium dioxide
8052-42-4 Asphalt

2.3 Other Hazards
Results of PBT and vPvB assessment
PBT-Not Applicable
vPvB: Not applicable.

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance- Not applicable
3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions
Dangerous components:

CAS: 64742-90-1	Residue, Petroleum, Steam-cracked PBT T Carc. Cat. 2 R45 Carc. 1B, H350	20-30%
CAS: 8052-42-4 EINECS: 232-490-9 Index number: 648-055-00-5	Asphalt. PBT T Repr. Cat. 1 R60-61; Xn R40 Carc, Cat. 3 Carc. 2, H351; Repr. 1A, H360	25-50%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	15-20%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon Black Xn R40 Carc, Cat. 3 Carc. 2, H351	1-3%
CAS: 14808-60-7	quartz substance with a Community workplace exposure limit	3-7%
CAS: 4719-04-4 EINECS: 225-208-0 Index number: 613-114-00-6	2.2'.2"- (Hexahydro-1.3.5-Triazine-1.3.5-triyl)triethanol T R23-48/23; Xn R22; Xi R43 Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 2.5%
CAS: 61791-31-9 EINECS: 263-163-9	Ethanol, 2.2'-iminobis-, N-coco alkyl derivs. C R34; Xn R22 __Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 2.5%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	naphthalene Xn R22-40; N R50/53 Carc. Cat. 3 Carc. 2, H351 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	Less than 0.1%
CAS: 50-32-8 EINECS: 200-028-5 Index number: 601-032-00-3	benzo[a]pyrene T Carc. Cat. 2, Muta. Cat. 2, Repr. Cat. 2 R45-46-60 Xi R43; N R50/53 Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	Less than 0.1%

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Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:
Do not pull solidified product off the skin.
Immediately wash with water and soap and rinse thoroughly.
Remove any clothing soiled by the product.
If skin irritation continues, consult a doctor.

After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Slight irritant effect on skin and mucous membranes.
Slight irritant effect on eyes.
Gastric or intestinal disorders.

Hazards
Carcinogenic.
May damage fertility or the unborn child.
Possible risk of irreversible effects.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.
May produce a nephrotoxic / hepatotoxic effect.

Contains benzo[a]pyrene. May produce an allergic reaction.

Contains 2.2'.2"-(Hexahydro-1.3.5-triazine-1.3.5-triyl)triethanol. May produce an allergic reaction.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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5.3 Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information No further relevant information available

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Use only in well ventilated areas.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: Keep out of the reach of children. Keep in tightly closed containers.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.
Do not store together with acids.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

50-32-8 benzo[a]pyrene	
PEL (USA)	Long-term value: 0.2 mg/m³ see Coal tar pitch volatiles
REL (USA)	Long-term value: 0.1 mg/m³ Coal tar pitch volatile; Pocket Guide Apps. A+C
TLV (USA)	L; BEIp
EL (Canada)	ACGIH A2; IARC 1

DNELs No further relevant information available.
PNECs No further relevant information available.

8052-42-4 Asphalt	
REL (USA)	Ceiling limit: 5* mg/m³ *15-min: See Pocket Guide App A
TLV (USA)	Long-term value: 0.2 mg/m³ *inh. fraction as benzene-soluble aerosol; BEIp
EL (Canada)	Long-term value: 0.5 mg/m³ Inhalable IARC 2B
EV (Canada)	Long-term value: 0.5 mg/m³ fume, as benzene-soluble aerosol, inhalable
1332-58-7 Kaolin	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV (USA)	Long-term value: 2* mg/m³ E; as respirable fraction
EL (Canada)	Long-term value: 2 mg/m³
EV (Canada)	Long-term value: 2(D) mg/m³ respirable
1333-86-4 Carbon Black	
PEL(USA)	Long-term value: 3.5 mg/m³
REL (USA)	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps. A+C
TLV (USA)	Long-term value: 3* mg/m³ *Inhalable fraction
EL (Canada)	Long-term value: 3 mg/m³ IARC 2B
EV (Canada)	Long-term value: 3.5* mg/m³

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14808-60-7 quartz	
PEL(USA)	see Quartz listing
REL (USA)	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m³ *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m³ *respirable fraction
91-20-3 naphthalene	
IOELV (EU)	Long-term value: 30 mg/m³, 10 ppm
PEL (USA)	Long-term value: 50 mg/m³, 10 ppm
REL (USA)	Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm
TLV (USA)	Long-term value: 52 mg/m³, 10 ppm Skin; BEI
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm Skin; IARC 2B
EV (Canada)	Short-term value: 78 mg/m³, 15 ppm Long-term value: 52 mg/m³, 10 ppm

Ingredients with biological limit values:	
8052-42-4 Asphalt	
BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.

Respiratory protection:

Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
Use suitable respiratory protective device in case of insufficient ventilation.
For spills, respiratory protection may be advisable.

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Protection of hands:
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Safety glasses

Body protection:
Protective work clothing

Limitation and supervision of exposure into the environment
No further relevant information available.

Risk management measures
See Section 7 for additional information.

8.3 Other Information: No further relevant information available.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information:

Appearance:

Form ..... Heavy Bodied Semi-Fluid Liquid
Color ..... Dark Chocolate Brown

Odor ..... Slightly Bituminous odor

Odor Threshold ..... Not determined

Ph Value ..... Not determined

Change in Condition:

Melting point/Melting Range ..... Not Determined
Boiling point/Boiling range ..... Undetermined

Flash Point ..... Not Applicable

Flammability (Solid Gaseous) ..... Not Applicable

Auto/Self-Ignition Temperature ..... Not determined

Decomposition Temperature ..... Not determined

Self-Igniting ..... Product is not self-igniting.

Danger of Explosion ..... Product does not present an explosion Hazard.

Explosion Limits:

Lower ..... Not determined
Upper ..... Not determined

Vapor Pressure ..... Not determined

Density at 20° C ..... 1 20 – 1.25 g/cm^3

Relative Density ..... Not Determined

Vapor Density ..... Not Determined

Evaporation Rate ..... Not Determined

Solubility in/Miscibility with Water ..... Dilutable with water

Partition Coefficient (n-octanol/water) Not Determined

Viscosity:

Dynamic ..... Not Determined
Kinematic ..... Not Determined

9.2 Other Information: No further relevant information available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.
Reacts with strong oxidizing agents.
Reacts with strong acids.

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10.4 Conditions to avoid: Store away from oxidizing agents and heat.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Not Classified.

LD/LC50 values relevant for classification:		
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rat)

Primary irritant effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Danger through skin adsorption.

The product can cause inheritable damage.

Toxic and/or corrosive effects may be delayed up to 24 hours.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Sensitization: Sensitization possible by skin contact.

Repeated dose toxicity:

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

Carc. 2, Repr. 1A

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms.

12.2 Persistence and degradability- No further relevant information available.

12.3 Bio-accumulative potential- No further relevant information available.

12.4 Mobility in soil- No further relevant information available.

12.5 Results of PBT and vPvB assessment- None available

12.6 Other adverse effects: No further relevant information available.

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SECTION 13 DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation:

As supplied, this material is not a hazardous waste according to Federal Regulations (40 CFR 261). This material, however, could become a hazardous waste if chemical additions are made, or it comes in contact with a hazardous waste or otherwise altered. Under such occurrences, consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Do not allow product to reach sewage system. Must not be disposed together with household garbage. Can be burned or disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material must dispose of unused material, residues, and containers in compliance with all applicable local, state, and federal laws and regulations.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14 TRANSPORTATION INFORMATION

In accordance with DOT.

14.1 UN-Number	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.2 UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.3 Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not Regulated
14.4 Packing group	
DOT, ADR, IMDG, IATA	Not Regulated
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user:	Not Applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
UN "Model Regulation":	

SECTION 15 REGULATORY INFORMATION

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

United States (USA)

SARA

Section 313 (Specific toxic chemical listings):	
91-20-3	naphthalene
50-32-8	benzo[a]pyrene

TSCA (Toxic Substances Control Act):
All ingredients are listed.

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Proposition 65 (California):

Chemicals known to cause cancer:

Reference to Carbon Black is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

14808-60-7	quartz
8052-42-4	asphalt
1333-86-4	carbon black
13463-67-7	titanium dioxide
91-20-3	naphthalene
218-01-9	chrysene
50-32-8	benzo[a]pyrene

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)		
91-20-3	naphthalene	C, CBD
50-32-8	benzo[a]pyrene	B2

IARC (International Agency for Research on Cancer)		
14808-60-7	quartz	1
8052-42-4	Asphalt	2B
1333-86-4	Carbon Black	2B
9003-01-4	Carbopols	3
91-20-3	naphthalene	2B
50-32-8	benzo[a]pyrene	1

TLV (Threshold Limit Value established by ACGIH)		
50-32-8 benzo[a]pyrene	TLV (USA)	A1
1332-58-7	Kaolin	A4
14808-60-7	quartz	A2
91-20-3	naphthalene	A4
50-32-8	benzo[a]pyrene	A2

NIOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7	quartz
50-32-8	benzo[a]pyrene

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Canada

Canadian Domestic Substances List (DSL)
All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients is listed

Canadian Ingredient Disclosure list (limit 1%)	
1333-86-4	Carbon Black
14808-60-7	quartz

Other regulations, limitations and prohibitive regulations
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients is listed

15.1 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R68	Possible risk of irreversible effects.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
WHMIS:	Workplace Hazardous Materials Information System (Canada)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Corr. 1B:	Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1:	Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1:	Sensitization - Skin, Hazard Category 1
Muta. 1B:	Germ cell mutagenicity, Hazard Category 1B
Muta. 2:	Germ cell mutagenicity, Hazard Category 2
Carc. 1B:	Carcinogenicity, Hazard Category 1B
Carc. 2:	Carcinogenicity, Hazard Category 2
Repr. 1B:	Reproductive toxicity, Hazard Category 1B
STOT RE 2:	Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Acute 1:	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1

Sources

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- END OF SDS -