

acc. to OSHA, Appendix D to § 1910.1200

### **D54 Revival**

Version number: GHS 1.1

Date of compilation: 2015-09-18

SEC	CTION 1: Identification	
1.1	Product identifier	
	Trade name	D54 Revival
1.2	Relevant identified uses of the substance or mixture a	and uses advised against
	Relevant identified uses	bumper and exterior trim dressing
1.3	Details of the supplier of the safety data sheet	
	B&B Blending, LLC 10963 Leroy Drive Northglenn CO 80233 United States	
	Telephone: 1.800.875.6320, 1.303.289.6320 Telefax e-mail: info@bbblending.com Website: bbblending.com	
	Competent person responsible for the SDS	Beth Tirrell
	e-mail (competent person)	btirrell@bbblending.com
1.4	Emergency telephone number	
	Emergency information service	<b>USA 1.800.535.5053, INTL 1.352.323.3500</b> 24 hour emergency telephone number.

#### **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Annex	- Hazard class and category	- Hazard statement code(s)	
A.5 A.6	germ cell mutagenicity carcinogenicity	Cat. 1B (Muta. 1B) Cat. 1B (Carc. 1B)	H340 H350
A.0	carcinogenicity	Gal. ID (Galc. ID)	П330

#### Remarks

For full text of H-phrases: see SECTION 16.

#### 2.2 Label elements

#### Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) Signal word danger

Pictograms

GHS08

#### Hazard statements

H340 H350 May cause genetic defects. May cause cancer.

#### **Precautionary statements**

#### **Precautionary statements - prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements - response

If exposed or concerned: Get medical advice/attention.



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#### Precautionary statements - storage

Store locked up.

#### Precautionary statements - disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients for labelling

Stoddard Solvent

#### 2.3 Other hazards

There is no additional information.

#### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### **Description of the mixture**

Name of substance	Identifier	Wt%	Hazard class and category		Hazard state- ment
Stoddard Solvent	CAS No 8052-41-3	0.1 - < 1	A.5 A.6 A.9 A.10 B.6	Muta. 1B Carc. 1B STOT RE 1 Asp. Tox. 1 Flam. Liq. 3	H340 H350 H372 H304 H226
morpholine	CAS No 110-91-8	0.1-<1	A.10 A.1D A.11 A.2 A.3 B.6	Acute Tox. 4 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Flam. Liq. 3	H302 H311 H332 H314 H318 H226
CMIT/MIT mixture	CAS No 55965-84-9	0-<0.1	A.10 A.1D A.11 A.2 A.3 A.4S	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 Skin Sens. 1	H301 H311 H331 H314 H318 H317

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.

#### **SECTION 4: First-aid measures**

#### 4.1

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Provide fresh air.



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#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

#### Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture Hazardous combustion products nitrogen oxides (NOx)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.



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#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

#### Incompatible substances or mixtures

Observe compatible storage of chemicals.

#### Control of the effects

Protect against external exposure, such as

frost

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Nota- tion	lden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m <sup>3</sup> ]	Sourc e
US	morpholine	110-91-8		PEL	20	70					29 CFR 1910.1 000
US	isopropyl alcohol	67-63-0		PEL	400	980					29 CFR 1910.1 000
US	stoddard solvent	8052-41-3		PEL	500	2,900					29 CFR 1910.1 000

Notation

STEL

Ceiling-C Ceiling value is a limit value above which exposure should not occur.

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified.



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### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### **Skin protection**

#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	liquid
Color	pale amber
Odor	characteristic
Other physical and chemical parameters	
pH (value)	6–7 (25 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	>65 °C at 1 atm
Flash point	40.55 °C at 101.3 kPa (closed cup)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
<ul> <li>lower explosion limit (LEL)</li> </ul>	1 vol%
<ul> <li>upper explosion limit (UEL)</li> </ul>	6 vol%
Vapor pressure	31.69 hPa at 25 °C
Density	0.98 – 0.99 <sup>g</sup> / <sub>cm<sup>3</sup></sub>
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.



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Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
	There is no additional information.

#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

# Physical stresses which might result in a hazardous situation and have to be avoided strong shocks

#### 10.5 Incompatible materials

oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
morpholine	110-91-8	oral	1,900 <sup>mg</sup> / <sub>kg</sub>
morpholine	110-91-8	dermal	500 <sup>mg</sup> / <sub>kg</sub>
morpholine	110-91-8	inhalation: vapor	11 <sup>mg</sup> /ı/4h
CMIT/MIT mixture	55965-84-9	oral	100 <sup>mg</sup> / <sub>kg</sub>
CMIT/MIT mixture	55965-84-9	dermal	300 <sup>mg</sup> / <sub>kg</sub>



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Name of substance	CAS No	Exposure route	ATE
CMIT/MIT mixture	55965-84-9	inhalation: vapor	3 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Summary of evaluation of the CMR properties

May cause genetic defects. May cause cancer. Shall not be classified as a reproductive toxicant.

#### Carcinogenicity

• National Toxicology Program (United States):

#### IARC Monographs

Name of substance	Name acc. to inventory	CAS No	wt%	Classifica- tion	Remarks	Number
morpholine	morpholine	110-91-8	0.2	3		Volume 47, 71
propan-2-ol	isopropyl alcohol	67-63-0	0.4413	3		Volume 15, Sup 7, 71

none of the ingredients are listed

#### Legend

3 Not classifiable as to carcinogenicity in humans.

#### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute)

Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
morpholine	110-91-8	LC50	179 <sup>mg</sup> / <sub>l</sub>	fish	96 h
morpholine	110-91-8	EC50	45 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	48 h



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#### Aquatic toxicity (chronic)

#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
morpholine	110-91-8	EC50	12 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	21 d

#### 12.2 Persistence and degradability

#### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
morpholine	110-91-8	DOC removal	93 %	25 d

#### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Stoddard Solvent	8052-41-3		3.16 - 7.15	
morpholine	110-91-8	0.65	-2.55 (pH value: 7, 25 °C)	
CMIT/MIT mixture	55965-84-9		0.71 - 0.75	

#### 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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Version number: GHS 1.1 Date of compilation: 2015-09-18 **SECTION 14: Transport information** 14.1 **UN** number (not subject to transport regulations) 14.2 UN proper shipping name not relevant 14.3 Transport hazard class(es) Class 14.4 Packing group not relevant 14.5 Environmental hazards NONE (non-environmentally hazardous acc. to the dangerous goods regulations) 14.6 Special precautions for user There is no additional information. 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk. Information for each of the UN Model Regulations Transport of dangerous goods by road or rail (49 CFR US DOT) not subject to transport regulations International Maritime Dangerous Goods Code (IMDG) Not subject to IMDG. International Civil Aviation Organization (ICAO-IATA/DGR) Not subject to ICAO-IATA. **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations specific for the product in guestion

National regulations (United States)

Toxic Substance Control Act (TSCA)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

all ingredients are listed or exempt from listing

# Industry or sector specific available guidance(s) NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
Chronic	*	Chronic (long-term) health effects may result from repeated overexposure.
Health	0	No significant risk to health.
Flammability	0	Material that will not burn under typical fire conditions.
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.
Personal protection	-	



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#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description
Flammability	1	Material that must be preheated before ignition can occur.
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combust- ible material.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard		

#### **Right to Know Hazardous Substance List**

Name of substance	CAS No	Remarks	Classifications
Stoddard Solvent	8052-41-3		F2
morpholine	110-91-8		CO F3 R1

#### Legend

CO Corrosive.

F2 Flammable - Second Degree.

F3 Flammable - Third Degree.

R1 Reactive - First Degree.

#### **Proposition 65 List of chemicals**

Name of substance	CAS No	Wt%	Remarks	Type of the toxicity
methanol	67-56-1	0.04293		developmental

#### Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)		
Hazard class	Category	Hazard class and category
germ cell mutagenicity	1B	(Muta. 1B)
carcinogenicity	1B	(Carc. 1B)

#### SECTION 16: Other information, including date of preparation or last revision

#### 16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
1.3	Competent person responsible for the SDS: Robert Blahnik	Competent person responsible for the SDS: Beth Tirrell	yes
1.3	e-mail (competent person): bblahnik@bbblending.com	e-mail (competent person): btirrell@bbblending.com	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety releva
3.2		Description of the mixture: change in the listing (table)	yes
6.4	Reference to other sections: Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.	Reference to other sections: Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materi- als: see section 10. Disposal considerations: see section 13.	yes
8.1		Occupational exposure limit values (Workplace Expos- ure Limits): change in the listing (table)	yes
9.1	Oxidizing properties: none	Oxidizing properties: noneThere is no additional information.	yes
10.5	Incompatible materials: There is no additional information.	Incompatible materials: oxidizers	yes
11.1		Acute toxicity of components of the mixture: change in the listing (table)	yes
1.1		• IARC Monographs: change in the listing (table)	yes
2.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
2.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
2.2	Persistence and degradability: Data are not available.	Persistence and degradability	yes
2.2		Degradability of components of the mixture: change in the listing (table)	yes
2.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
4.7		Information for each of the UN Model Regulations	yes
4.7		Transport of dangerous goods by road or rail (49 CFR US DOT): not subject to transport regulations	yes
4.7		International Maritime Dangerous Goods Code (IMDG): Not subject to IMDG.	yes
4.7		• International Civil Aviation Organization (ICAO-IATA/ DGR): Not subject to ICAO-IATA.	yes
5.1	Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313): none of the ingredients are listed contains:		yes
15.1		Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313): change in the listing (table)	yes
5.1		NPCA-HMIS® III: change in the listing (table)	yes
5.1		Right to Know Hazardous Substance List: change in the listing (table)	yes
5.1	Proposition 65 List of chemicals: none of the ingredients are listed	Proposition 65 List of chemicals	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
15.1		Proposition 65 List of chemicals: change in the listing (table)	yes
16.2		Abbreviations and acronyms: change in the listing (table)	yes
16.5		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

#### Abbreviations and acronyms 16.2

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Muta.	Germ cell mutagenicity



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Abbr.	Descriptions of used abbreviations
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
РВТ	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

#### 16.3 Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

#### 16.4 Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### 16.5

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.



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Code	Text
H372	Causes damage to organs through prolonged or repeated exposure.

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#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.