1. Identification

Product identifier

Product name
EPO-TEK HYB-353ND Part A

Product number
HYB-353ND/A

Recommended use of the chemical and restrictions on use

Application
Adhesive.

Details of the supplier of the safety data sheet

Supplier
Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com

Emergency telephone number

Emergency telephone
+1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards
Not Classified

Health hazards
Skin Irrit. 2 - H315
Eye Irrit. 2A - H319
Skin Sens. 1 - H317
Repr. 2 - H361f

Environmental hazards
Aquatic Chronic 2 - H411

Label elements

Pictogram

Signal word
Warning

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.
EPO-TEK HYB-353ND Part A

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.

Contains
Epoxy Phenol Novolac, Photoinitiator

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>CAS Number</th>
<th>Classification</th>
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<tr>
<td>Epoxy Phenol Novolac</td>
<td>60-100%</td>
<td>9003-36-5</td>
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<tr>
<td></td>
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<td>Eye Irrit. 2 - H319</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2 - H411</td>
</tr>
<tr>
<td>Specialty Acrylate Blend</td>
<td>10-30%</td>
<td>Proprietary</td>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3 - H335</td>
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<tr>
<td>Photoinitiator</td>
<td>&lt;1%</td>
<td>Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

Classification

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation
Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact
Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

General information
Contains a substance/a group of substances which may damage fertility.
EPO-TEK HYB-353ND Part A

Inhalation
Irritation of nose, throat and airway.

Ingestion
May cause discomfort if swallowed.

Skin contact
Skin irritation. Allergic rash.

Eye contact
Irritation of eyes and mucous membranes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Extinguish with the following media: Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture
Hazardous combustion products
Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Advice for firefighters
Protective actions during firefighting
Avoid breathing fire gases or vapors.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions
Environmental precautions
Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

Methods and materials for containment and cleaning up

Methods for cleaning up
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

Reference to other sections
For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Protect from light.

Storage class
Chemical storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.
8. Exposure Controls/personal protection

Ingredient comments
No exposure limits known for ingredient(s).

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield.

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Liquid.

Color
Clear liquid.

Odor
Mild.

Flash point
> 93°C

Evaporation rate
<BuAc

Solubility(ies)
Insoluble in water.

Other information
None.

10. Stability and reactivity

Reactivity
The following materials may react violently with the product: Strong oxidizing agents. Strong reducing agents.

Stability
Stable at normal ambient temperatures.

Possibility of hazardous reactions
Will not occur.

Conditions to avoid
Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Oxidizing agents. Reducing agents. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

Materials to avoid
Strong oxidizing agents. Strong reducing agents.
EPO-TEK HYB-353ND Part A

Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Inhalation
May cause respiratory system irritation.

Ingestion
May cause discomfort if swallowed.

Skin Contact
May cause sensitisation by skin contact. Irritating to skin.

Eye contact
Irritating to eyes.

Acute and chronic health hazards
Contains a substance/a group of substances which may damage fertility.

12. Ecological Information

Ecotoxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity
Very toxic to aquatic organisms.

Persistence and degradability

Persistence and degradability
No data available.

Bioaccumulative potential
No data available on bioaccumulation.

Mobility in soil
The product is insoluble in water.

Other adverse effects
Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number

UN No. (DOT) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN proper shipping name

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
EPO-TEK HYB-353ND Part A

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)

Transport hazard class(es)
DOT hazard class 9
DOT hazard label Class 9
IMDG Class 9
ICAO class/division 9

Transport labels

Packing group
DOT pack group III
IMDG packing group III
ICAO packing group III

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS  F-A, S-F

Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.

SARA 313 Emission Reporting
None of the ingredients are listed.

CAA Accidental Release Prevention
None of the ingredients are listed.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed.
US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed.

Massachusetts "Right To Know" List
None of the ingredients are listed.

Rhode Island "Right To Know" List
None of the ingredients are listed.

Minnesota "Right To Know" List
None of the ingredients are listed.

New Jersey "Right To Know" List
None of the ingredients are listed.

Pennsylvania "Right To Know" List
None of the ingredients are listed.

Inventories

EU - EINECS/ELINCS
Some of the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed.

Australia - AICS
All the ingredients are listed or exempt.

Japan - MITI
Some of the ingredients are listed or exempt.

Korea - KECI
Some of the ingredients are listed or exempt.

China - IECSC
Some of the ingredients are listed or exempt.

Philippines - PICCS
Some of the ingredients are listed or exempt.

16. Other information
EPO-TEK HYB-353ND Part A

Revision 1

Hazard statements in full
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.
SAFETY DATA SHEET
EPO-TEK HYB-353ND Part B

1. Identification

Product identifier

Product name EPO-TEK HYB-353ND Part B
Product number HYB-353ND/B

Recommended use of the chemical and restrictions on use

Application Adhesive.

Details of the supplier of the safety data sheet

Supplier Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com

Emergency telephone number

Emergency telephone +1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 1B - H360D
Environmental hazards Not Classified

Human health Contains a substance/a group of substances which may damage the unborn child.

Label elements

Pictogram

Signal word Danger
Hazard statements H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H360D May damage the unborn child.
EPO-TEK HYB-353ND Part B

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.

Contains

Substituted Imidazole Blend, Imidazole

3. Composition/Information on ingredients

Mixtures

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<th>Substituted Imidazole Blend</th>
<th>60-100%</th>
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Classification

- Acute Tox. 4 - H302
- Eye Dam. 1 - H318
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Repr. 1B - H360D

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation

Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burns can occur.
EPO-TEK HYB-353ND Part B

Eye contact
Severe irritation, burning and tearing.

Indication of immediate medical attention and special treatment needed
Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture
Hazardous combustion products
Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Advice for firefighters
Protective actions during firefighting
Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

Environmental precautions
Environmental precautions
Avoid release to the environment.

Methods and material for containment and cleaning up
Methods for cleaning up
Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.

Reference to other sections
For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling
Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities
Storage precautions
Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame. Keep container tightly closed. Store away from the following materials: Oxidizing materials. Reducing agents.

Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments
WEL = Workplace Exposure Limits

Exposure controls
EPO-TEK HYB-353ND Part B

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

Eye/face protection
The following protection should be worn: Chemical splash goggles.

Hand protection
Use protective gloves.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
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<td>Appearance</td>
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<tr>
<td>Color</td>
<td>Amber.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight.</td>
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<tr>
<td>Flash point</td>
<td>93°C</td>
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<tr>
<td>Evaporation rate</td>
<td>&lt;BuAc</td>
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<td>Vapour density</td>
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<td>Bulk density</td>
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<td>Solubility(ies)</td>
<td>Slightly soluble in water.</td>
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<td>Other information</td>
<td>Not known.</td>
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</table>

10. Stability and reactivity

Reactivity
The following materials may react with the product: Strong oxidizing agents. Strong reducing agents.

Stability
Stable at normal ambient temperatures.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid contact with the following materials: Oxidizing agents. Reducing agents.

Materials to avoid
Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products
Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of carbon. Oxides of nitrogen.
11. Toxicological information

Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg)  
500.24

Reproductive toxicity
Reproductive toxicity - fertility  Possible risk of adverse reproductive effects.

Inhalation  Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion  Harmful if swallowed.
Skin Contact  Causes burns.
Eye contact  Causes burns.

12. Ecological Information

Ecotoxicity  Not known.

Persistence and degradability

Persistence and degradability  The product is moderately biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential  The product contains potentially bioaccumulating substances.

Mobility in soil

Mobility  Semi-mobile.

Other adverse effects

Other adverse effects  Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods  Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number

UN No. (DOT)  3267
UN No. (IMDG)  3267
UN No. (ICAO)  3267

UN proper shipping name

Proper shipping name (DOT)  CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Proper shipping name (IMDG)  CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Proper shipping name (ICAO)  CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)

Transport hazard class(es)

DOT hazard class  8
EPO-TEK HYB-353ND Part B

DOT hazard label  Corrosive

IMDG Class  8

ICAO class/division  8

Transport labels

Packaging group

DOT pack group  III

IMDG packing group  III

ICAO packing group  III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS  F-A, S-B

Transport in bulk according to  Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are required to be listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are required to be listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are required to be listed.

SARA 313 Emission Reporting
None of the ingredients are required to be listed.

CAA Accidental Release Prevention
None of the ingredients are required to be listed.

OSHA Highly Hazardous Chemicals
None of the ingredients are required to be listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are required to be listed.
EPO-TEK HYB-353ND Part B

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are required to be listed.

Massachusetts "Right To Know" List
None of the ingredients are required to be listed.

Rhode Island "Right To Know" List
None of the ingredients are required to be listed.

Minnesota "Right To Know" List
None of the ingredients are required to be listed.

New Jersey "Right To Know" List
None of the ingredients are required to be listed.

Pennsylvania "Right To Know" List
None of the ingredients are required to be listed.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed.

Australia - AICS
All the ingredients are listed or exempt.

Japan - MITI
All the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
All the ingredients are listed or exempt.

16. Other information

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<tr>
<th>Description</th>
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<td>Revision</td>
<td>1</td>
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<tr>
<td>Hazard statements in full</td>
<td>H302 Harmful if swallowed.</td>
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<tr>
<td></td>
<td>H314 Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td></td>
<td>H318 Causes serious eye damage.</td>
</tr>
<tr>
<td></td>
<td>H318 Causes serious eye damage.</td>
</tr>
<tr>
<td></td>
<td>H360D May damage the unborn child.</td>
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