



SAFETY DATA SHEET



Enriching lives through innovation

HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

SECTION 1. IDENTIFICATION

Product name : HARDENER 2053 B

Manufacturer or supplier's details

Company name of supplier : Huntsman Advanced Materials Americas LLC
Address : P.O. Box 4980

The Woodlands,
TX 77387
United States of America (USA)

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS : Global_Product_EHS_AdMat@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
 Date of first issue: 07/14/2020

Print Date 12/07/2021

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

Not available

Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
dibenzoyl peroxide	94-36-0	10 - 20

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Treat symptomatically.
 Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.
 Get medical attention if symptoms occur.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.



HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
Date of first issue: 07/14/2020

Print Date 12/07/2021

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.
- Recommended storage temperature : 41 - 77 °F / 5 - 25 °C
- Further information on storage stability : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dibenzoyl peroxide	94-36-0	TWA	5 mg/m ³	ACGIH
		TWA	5 mg/m ³	OSHA Z-1
		TWA	5 mg/m ³	NIOSH REL
		TWA	5 mg/m ³	OSHA P0

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : black

Odour : characteristic

Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1.2 g/cm³ (68 °F / 20 °C)

Solubility(ies)
Water solubility : insoluble, immiscible

Solubility in other solvents : No data is available on the product itself.



HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
 Date of first issue: 07/14/2020

Print Date 12/07/2021

Partition coefficient: n-octanol/water : No data is available on the product itself.
 Auto-ignition temperature : No data is available on the product itself.
 Thermal decomposition : No data is available on the product itself.
 Self-Accelerating decomposition temperature (SADT) : 122 °F / 50 °C
 Viscosity
 Viscosity, dynamic : 83,000 mPa.s (77 °F / 25 °C)
 Explosive properties : No data is available on the product itself.
 Oxidizing properties : No data is available on the product itself.
 Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No hazards to be specially mentioned.
 Conditions to avoid : None known.
 Incompatible materials : None known.
 Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data is available on the product itself.

Acute toxicity**Components:**

dibenzoyl peroxide:
 Acute oral toxicity Components : LD50 (Mouse, male and female): > 2,000 mg/kg
 Method: OECD Test Guideline 401
 Assessment: The substance or mixture has no acute oral toxicity

Components:

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
 Date of first issue: 07/14/2020

Print Date 12/07/2021

dibenzoyl peroxide:
 Acute inhalation toxicity : LC50 (Rat, male): > 24.3 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: OECD Test Guideline 403
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Components:**

dibenzoyl peroxide:
 Species: Rabbit
 Method: OECD Test Guideline 404
 Result: No skin irritation

Serious eye damage/eye irritation**Components:**

dibenzoyl peroxide:
 Species: Rabbit
 Result: Irritating to eyes.
 Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Components:**

dibenzoyl peroxide:
 Exposure routes: Skin
 Species: Mouse
 Assessment: May cause sensitisation by skin contact.
 Method: OECD Test Guideline 429
 Result: Causes sensitisation.

Assessment: No data available

Germ cell mutagenicity**Components:**

dibenzoyl peroxide:
 Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Components:

HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

dibenzoyl peroxide:
Genotoxicity in vivo : Cell type: Somatic
Application Route: Intraperitoneal injection
Dose: 0, 50, 100, 200 mg/kg b.w.
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity-
Assessment : No data available

Carcinogenicity**Components:**

dibenzoyl peroxide:
Species: Mouse, male and female
Application Route: Dermal
Exposure time: 104 weeks
Result: negative

Carcinogenicity -
Assessment : No data available

IARC

Group 1: Carcinogenic to humans
silicon dioxide
(Silica dust, crystalline)

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen
silicon dioxide
(Silica, Crystalline (Respirable Size))

Reproductive toxicity**Components:**

dibenzoyl peroxide:
Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 0, 250, 500, 1,000 mg/kg b.w/
General Toxicity - Parent: No observed adverse effect level:
500 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 500
mg/kg body weight
Method: OECD Test Guideline 422

Components:

dibenzoyl peroxide:
Effects on foetal
development : Species: Rat
Dose: 100, 300 or 1000 mg/kg/day

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
Date of first issue: 07/14/2020

Print Date 12/07/2021

General Toxicity Maternal: No observed adverse effect level:
300 mg/kg body weight
Developmental Toxicity: No observed adverse effect level:
300 mg/kg body weight
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity**Components:**

dibenzoyl peroxide:
Species: Rat, male and female
NOAEL: > 100 mg/kg
Application Route: Skin contact
Number of exposures: 2 years
Method: OECD Test Guideline 451

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available



HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

Further information

Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

dibenzoyl peroxide:
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0602 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Components:

dibenzoyl peroxide:
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.11 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Components:

dibenzoyl peroxide:
Toxicity to algae/aquatic : EbC50 (Selenastrum capricornutum (green algae)): 0.0422
plants
mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Components:

dibenzoyl peroxide:
M-Factor (Acute aquatic : 10
toxicity)
Toxicity to fish (Chronic : No data available
toxicity)

Components:

dibenzoyl peroxide:
Toxicity to daphnia and other : EC10 (Daphnia magna (Water flea)): 0.001 mg/l
aquatic invertebrates
(Chronic toxicity)
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211

Components:

dibenzoyl peroxide:



HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
Date of first issue: 07/14/2020

Print Date 12/07/2021

M-Factor (Chronic aquatic toxicity) : 10

Components:

dibenzoyl peroxide:
Toxicity to microorganisms : EC50 (activated sludge): 35 mg/
Exposure time: 0.5 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability**Components:**

dibenzoyl peroxide:
Biodegradability : Inoculum: activated sludge
Concentration: 4 mg/l
Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon : No data available

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
Date of first issue: 07/14/2020

Print Date 12/07/2021

(DOC)

Physico-chemical
removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage
Treatment : No data available

Bioaccumulative potential

Bioaccumulation : No data available

Components:

dibenzoyl peroxide:
Partition coefficient: n-
octanol/water : log Pow: 3.2 (72 °F / 22 °C)
pH: 7.02
Method: OECD Test Guideline 117

Mobility in soil

Mobility : No data available

Components:

dibenzoyl peroxide:
Distribution among
environmental compartments : Koc: 6309.57
Method: OECD Test Guideline 121

Stability in soil : No data available

Other adverse effects

Environmental fate and
pathways : No data available

Results of PBT and vPvB
assessment : No data available

Endocrine disrupting
potential : No data available

Adsorbed organic bound
halogens (AOX) : No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I
Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
B).

HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
 Date of first issue: 07/14/2020

Print Date 12/07/2021

Additional ecological information - Product : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.
 Dispose of as hazardous waste in compliance with local and national regulations.
 Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA**

UN/ID No. : UN 3077
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
 (DIBENZOYL PEROXIDE)
 Class : 9
 Packing group : III
 Labels : Miscellaneous
 Packing instruction (cargo aircraft) : 956
 Packing instruction (passenger aircraft) : 956
 Environmentally hazardous : yes

IMDG

UN number : UN 3077
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
 N.O.S.
 (DIBENZOYL PEROXIDE)
 Class : 9
 Packing group : III

HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**DOT Classification**

UN/ID/NA number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(DIBENZOYL PEROXIDE)
Remarks	:	Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards	:	Respiratory or skin sensitisation Serious eye damage or eye irritation
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SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:
		dibenzoyl peroxide 94-36-0 >= 10 - < 20 %

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" for carcinogenicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

The components of this product are reported in the following inventories:



HARDENER 2053 B

Version 1.0 Revision Date: 07/14/2020 SDS Number: 400000009980 Date of last issue: -
 Date of first issue: 07/14/2020

Print Date 12/07/2021

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

Inventories

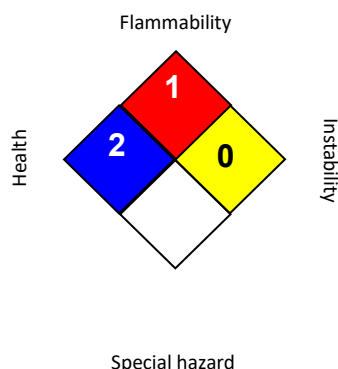
AICS (Australia), AIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****HMIS® IV:**

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

Revision Date : 07/14/2020



HARDENER 2053 B

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/14/2020	400000009980	Date of first issue: 07/14/2020

Print Date 12/07/2021

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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