

Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

Deflector Shield

Version number: GHS 2.0
Replaces version of: 2016-01-04 (GHS 1)

revision: 2016-01-05

SECTION 1: Identification

1.1 Product identifier

Trade name **Deflector Shield**

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

Relevant identified uses paint sealer with resin

1.3 Details of the supplier of the safety data sheet

Verax Chemical Company
20102 Broadway Ave.
Snohomish, WA 98296
360-668-2431

Competent person responsible for the SDS Warren Curkendall

1.4 Emergency telephone number

Emergency information service **USA 1.800.535.5053, INTL 1.352.323.3500**
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)	
B.6	flammable liquid	Cat. 4 (Flam. Liq. 4)	H227
A.5	germ cell mutagenicity	Cat. 1B (Muta. 1B)	H340
A.6	carcinogenicity	Cat. 1B (Carc. 1B)	H350
A.9	specific target organ toxicity - repeated exposure	Cat. 2 (STOT RE 2)	H373
A.10	aspiration hazard	Cat. 1 (Asp. Tox. 1)	H304

Remarks

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

Hazards not otherwise classified

Toxic to aquatic life (GHS category 2: aquatic toxicity - acute).

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word danger

Pictograms

GHS08



Hazard statements

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H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H340	May cause genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Precautionary statements - prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/eye protection/face protection.

Precautionary statements - response

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Do NOT induce vomiting.
In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

Precautionary statements - storage

Store in a well-ventilated place. Keep cool.
Store locked up.

Precautionary statements - disposal

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

Hazardous ingredients for labelling

Stoddard Solvent, Distillates (petroleum), hydrotreated light

2.3 Other hazards

This material is combustible, but will not ignite readily. Special danger of slipping by leaking/spilling product.

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 statement
Distillates (petroleum), hydrotreated light	CAS No 64742-47-8	10 - < 25	B.6 A.10	Flam. Liq. 4 Asp. Tox. 1	H227 H304
aminofunctional silicone fluid	CAS No 69430-37-1	1 - < 5	B.6	Flam. Liq. 2	H225
Stoddard Solvent	CAS No 8052-41-3	1 - < 5	B.6 A.5 A.6 A.9 A.10	Flam. Liq. 3 Muta. 1B Carc. 1B STOT RE 1 Asp. Tox. 1	H226 H340 H350 H372 H304

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Name of substance	Identifier	Wt%	Hazard class and category		Hazard statement
Propan-2-ol	CAS No 67-63-0	1 - < 5	B.6 A.3 A.8D	Flam. Liq. 2 Eye Irrit. 2A STOT SE 3	H225 H319 H336
methanol	CAS No 67-56-1	< 1	B.6 A.10 A.1D A.1I A.8	Flam. Liq. 2 Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 STOT SE 1	H225 H301 H311 H331 H370
CMIT/MIT mixture	CAS No 55965-84-9	< 1	A.10 A.1D A.1I 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.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

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.

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.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

nitrogen oxides (NO_x)

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 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.

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.

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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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not to 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

• Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

• Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Incompatible substances or mixtures

Observe compatible storage of chemicals.

Control of the effects

Protect against external exposure, such as frost

Consideration of other advice

Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
US	ethyl alcohol (ethanol)	64-17-5	PEL	1,000	1,900			29 CFR OSHA
US	methyl alcohol	67-56-1	PEL	200	260			29 CFR OSHA
US	isopropyl alcohol	67-63-0	PEL	400	980			29 CFR OSHA
US	stoddard solvent	8052-41-3	PEL	500	2,900			29 CFR OSHA

Notation

STEL 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.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid (viscous)
Color	off-white
Odor	characteristic

Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	-20 °C at 101.3 kPa
Flash point	62 °C at 101.3 kPa 143 °F at 1 atm (closed cup)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
• lower explosion limit (LEL)	1 vol%
• upper explosion limit (UEL)	6 vol%
Vapor pressure	31.69 hPa at 25 °C
Density	not determined
Relative density	0.99 water = 1
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	280 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

• if heated

risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

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10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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

strong shocks

10.5 Incompatible materials

There is no additional information.

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
methanol	67-56-1	oral	100
methanol	67-56-1	dermal	300
methanol	67-56-1	inhalation: vapor	3
CMIT/MIT mixture	55965-84-9	oral	100
CMIT/MIT mixture	55965-84-9	dermal	300
CMIT/MIT mixture	55965-84-9	inhalation: vapor	3

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.

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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):

none of the ingredients are listed

• IARC Monographs

none of the ingredients are listed

Name of substance	Name acc. to inventory	CAS No	wt%	Classification	Remarks	Number
ethyl alcohol	Ethanol	64-17-5	0.89	1	in alcoholic beverages	Volume 96, 100E
Propan-2-ol	Isopropyl alcohol	67-63-0	1.038	3		Volume 15, Sup 7, 71

Legend

1 Carcinogenic to humans.

3 Not classifiable as to carcinogenicity in humans.

Specific target organ toxicity (STOT)

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life.

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
Propan-2-ol	67-63-0	LC50	10,000 mg/l	fish	96 hours
methanol	67-56-1	LC50	15,400 mg/l	fish	96 hours
methanol	67-56-1	EC50	12,700 mg/l	fish	96 hours
methanol	67-56-1	ErC50	22,000 mg/l	algae	96 hours

Aquatic toxicity (chronic)

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Propan-2-ol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

12.2 Persistence and degradability

Data are not available.

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Propan-2-ol	67-63-0	oxygen depletion	53 %	5 d
methanol	67-56-1	oxygen depletion	76 %	5 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		7.15	
methanol	67-56-1		-0.77	
CMIT/MIT mixture	55965-84-9		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

Waste treatment-relevant information

Solvent reclamation/regeneration.

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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SECTION 14: Transport information

- 14.1** UN number
- 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.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed or exempt from listing

SARA TITLE III (Superfund Amendment and Reauthorization Act)

List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section 302 and 304) none of the ingredients are listed

Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313) none of the ingredients are listed contains:

Name of substance	CAS No	Remarks	Effective date
methanol	67-56-1		1986-12-31
Propan-2-ol	67-63-0	Only persons who manufacture by the strong acid process are subject, no supplier notification.	1986-12-31

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	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
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 protective equipment	-	

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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	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard		

Right to Know Hazardous Substance List

none of the ingredients are listed

Name of substance	CAS No	Remarks	Classifications
methanol	67-56-1		TE F3
Propan-2-ol	67-63-0		F3
Stoddard Solvent	8052-41-3		F2

Legend

F2 Flammable - Second Degree.
F3 Flammable - Third Degree.
TE Teratogenic.

Proposition 65 List of chemicals

none of the ingredients are listed

Name of substance	CAS No	Remarks	Type of toxicity
methanol	67-56-1		developmental

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

Classification according to GHS (1272/2008/EC, CLP)

Hazard class

germ cell mutagenicity
carcinogenicity
specific target organ toxicity - repeated exposure
aspiration hazard

Category Hazard class and category

1B (Muta. 1B)
1B (Carc. 1B)
2 (STOT RE 2)
1 (Asp. Tox. 1)

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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
1.1	Trade name: Verax Deflector Shield	Trade name: Deflector Shield	yes

16.2 Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
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)
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
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
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
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Muta.	germ cell mutagenicity
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)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration

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Abbr.	Descriptions of used abbreviations
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
STOT SE	specific target organ toxicity - single 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
H225	highly flammable liquid and vapor
H226	flammable liquid and vapor
H227	combustible liquid
H301	toxic 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
H319	causes serious eye irritation
H331	toxic if inhaled
H336	may cause drowsiness or dizziness
H340	may cause genetic defects
H350	may cause cancer
H370	causes damage to organs
H372	causes damage to organs through prolonged or repeated exposure
H373	may cause 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.