



Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Issue date: 1/11/2023 Revision date: 4/23/2025 Version: 3.0

SECTION 1 Chemical product and company identification

Chemical Chinese name	:	
Chemical English name	:	Defender Ultra Shield 1.0
Product code	:	41-0303N
Name of company	:	Engineered Custom Coatings, LLC
Address	:	U.S.A. Pewaukee, WI 1002 Hickory Street
Zip code	:	53072
Fax	:	(262) 691-3892
Tel.	:	(262) 691-1930
Emergency number	:	24 Hour Emergency Assistance: InfoTrac 1-800-535-5053 (US & Canada) 1-352-323-3500 (International)
Recommended use of the chemical	:	No additional information available
Restricted use of the chemical	:	No additional information available

SECTION 2 Hazards identification

Emergency overview



Highly flammable liquid and vapour.

GHS hazard classification

Physical hazards	:	Flammable liquids, Category 2
Health hazards	:	Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Aspiration hazard, Category 1

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)	:	 
Signal word (GHS CN)	:	Danger.
Hazard statements (GHS CN)	:	H225 - Highly flammable liquid and vapour H304 - May be fatal if swallowed and enters airways H340 - May cause genetic defects H350 - May cause cancer.
Precautionary statements (GHS CN)	:	
Prevention measures	:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 - Keep container tightly closed.

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

Incident response	: P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P313 - IF exposed or concerned: Get medical advice/attention. P331 - Do NOT induce vomiting. P370+P378 - In case of fire: Use media other than water to extinguish.
Safe storage	: P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Disposal	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Physical and chemical hazards

Highly flammable liquid and vapour

Health hazards

May be fatal if swallowed and enters airways

May cause genetic defects

May cause cancer

Symptoms/effects after eye contact : None under normal conditions

Symptoms/effects after ingestion : Risk of lung oedema

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation.

Environmental hazards

No additional information available

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

Product form : Mixture.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
Solvent solution	80 - 99	Trade secret
Silicone resin	1 - 20	Trade secret

SECTION 4 First-aid measures

Description of necessary first-aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (show the label where possible).

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

First-aid measures after inhalation	: Call a physician immediately : Remove person to fresh air and keep comfortable for breathing. : Remove person to fresh air and keep comfortable for breathing. : Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of water/.... : Wash contaminated clothing before reuse. : If skin irritation occurs: : Get medical advice/attention. : Specific treatment first aid instruction on this label. : Rinse skin with water/shower. : Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse immediately with plenty of water. : Obtain medical attention if pain, blinking or redness persists. : Rinse eyes with water as a precaution
First-aid measures after ingestion	: Rinse mouth. : Do NOT induce vomiting. : Immediately call a POISON CENTER/doctor. : Do not induce vomiting. : Call a physician immediately

Most important symptoms/effects

Symptoms/effects after eye contact	: None under normal conditions
Symptoms/effects after ingestion	: Risk of lung oedema
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: Sand : Water spray : Dry powder : Foam : Carbon dioxide
Unsuitable extinguishing media	: Do not use a heavy water stream

Specific hazards

Fire hazard : Highly flammable liquid and vapour.

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

- Hazardous decomposition products in case of fire : Toxic fumes may be released
- Explosion hazard : May form flammable/explosive vapour-air mixture

Advice for firefighters and protective measures

- Firefighting instructions : Use water spray or fog for cooling exposed containers
Exercise caution when fighting any chemical fire
Prevent fire fighting water from entering the environment
Do not enter fire area without proper protective equipment, including respiratory protection
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection
Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources
Use special care to avoid static electric charges
No open flames. No smoking
Stop leak if safe to do so.
Notify authorities if product enters sewers or public waters
Absorb spillage to prevent material damage.
- Personal Precautions, Protective Equipment and Emergency Procedures : No additional information available

For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment
- Emergency procedures : Evacuate unnecessary personnel
No open flames, no sparks, and no smoking
Only qualified personnel equipped with suitable protective equipment may intervene

For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment
Equip cleanup crew with proper protection
Avoid breathing dust/fume/gas/mist/vapours/spray
For further information refer to section 8: "Exposure controls/personal protection"
- Emergency procedures : Ventilate area
Evacuate unnecessary personnel
Stop leak if safe to do so.

Environmental precautions

- Avoid release to the environment
Prevent entry to sewers and public waters

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

Notify authorities if liquid enters sewers or public waters

Notify authorities if product enters sewers or public waters

Methods and material for containment and cleaning up

Methods for cleaning : No additional information available

For containment : Absorb spilled material with sand or earth
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams
Stop leak without risks if possible

Prevention measures for secondary accidents

Prevention Measures for Secondary Accidents : No additional information available

Other information : Dispose of materials or solid residues at an authorized site

SECTION 7 Handling and storage

Handling

Precautions for safe handling : Ensure good ventilation of the work station
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work
Provide good ventilation in process area to prevent formation of vapour
No open flames. No smoking
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Flammable vapours may accumulate in the container
Use explosion-proof equipment
Wear personal protective equipment
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Take all necessary technical measures to avoid or minimize the release of the product on the workplace
Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers
Provide local exhaust or general room ventilation
Floors, walls and other surfaces in the hazard area must be cleaned regularly

Hygiene measures : Wash thoroughly after handling
Separate working clothes from town clothes. Launder separately
Do not eat, drink or smoke when using this product.
Always wash hands after handling the product

Local and general ventilation : No additional information available

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

Storage

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Technical measures	: Proper grounding procedures to avoid static electricity should be followed Use explosion-proof electrical, ventilating, and lighting equipment Ground/bond container and receiving equipment.
Material used in packaging/containers	: No additional information available
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Packaging materials	: Store always product in container of same material as original container

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

No additional information available

Biological limit values

No additional information available

Monitoring methods

No additional information available

Appropriate engineering controls

Ensure good ventilation of the work station

Personal protective equipment

Personal protective equipment	: Avoid all unnecessary exposure
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use
Hand protection	: Wear protective gloves/protective clothing/eye protection/face protection protective gloves
Eye protection	: Chemical goggles or safety glasses Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)



Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

SECTION 9 Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Colourless
Odour	: characteristic
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 98.4 °C
Flash point	: -4 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Highly flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Density	: 5.87 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 20 mm ² /s
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Radioactive	: No

SECTION 10 Stability and reactivity

Chemical stability	: Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture
Reactivity	: Highly flammable liquid and vapour.
Possibility of hazardous reactions	: Not established
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition
Incompatible materials	: Strong acids Strong bases
Hazardous decomposition products	: fume Carbon monoxide Carbon dioxide May release flammable gases
Other properties	: No additional information available

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral) : No data available
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : No data available

Skin corrosion/irritation

Skin corrosion/irritation : Not classified.

Serious eye damage/eye irritation

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitisation

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity

Carcinogenicity : May cause cancer.

Reproductive toxicity

Reproductive toxicity : No data available

STOT - single exposure

STOT - single exposure : Not classified.

STOT - repeated exposure

STOT - repeated exposure : No data available

Aspiration hazard

Aspiration hazard : May be fatal if swallowed and enters airways.

Defender Ultra Shield 1.0	
Viscosity, kinematic	< 20 mm ² /s
Density	5.87 lb/gal

SECTION 12 Ecological information

Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : No data available

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

Hazardous to the aquatic environment, long-term (chronic)
: No data available
No additional information available

Persistence and degradability

Defender Ultra Shield 1.0	
Persistence and degradability	Not established.
Solvent solution (Trade secret)	
Persistence and degradability	Rapidly degradable
Silicone resin (Trade secret)	
Persistence and degradability	Rapidly degradable

Bioaccumulative potential

Defender Ultra Shield 1.0	
Bioaccumulative potential	Not established

Mobility in soil

Defender Ultra Shield 1.0	
Bioaccumulative potential	Not established

Other adverse effects

Classification procedure (Ozone) : No data available
Other information : Avoid release to the environment.

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated container and packaging : No additional information available

Additional information : Handle empty containers with care because residual vapours are flammable, Flammable vapours may accumulate in the container, Do not re-use empty containers.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations
Dispose of contents/container to in accordance with local/regional/national/international regulations
Disposal must be done according to official regulations

Ecological waste information : Avoid release to the environment.
Hazardous waste due to toxicity

Sewage disposal recommendations : Disposal must be done according to official regulations

Regional waste regulation : Disposal must be done according to official regulations

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

UN number

UN-No. (JT/T 617) : 1263
UN-No. (IMDG) : 1263
UN-No. (IATA) : 1263

Proper shipping name

Proper Shipping Name (JT/T 617) : PAINT
Proper Shipping Name (IMDG) : PAINT
Proper Shipping Name (IATA) : Paint

Transport hazard class(es)

Overland transport (JT/T 617)

Transport hazard class(es) (JT/T 617) : 3
Labels (JT/T 617) : 3.



Class (JT/T 617) : 3.

Transport by sea

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3.



Class (IMDG) : 3.

Air transport

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3.



Class (IATA) : 3.

Packing group

Packing Group (JT/T 617) : I - Applicable for packaging consisting of substances presenting high danger.
Packing group (IMDG) : II - substances presenting medium danger
Packing group (IATA) : II - Medium danger

Marine pollutant

Dangerous for the environment : No

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

Marine pollutant : No
Other information : No supplementary information available.

Special transport precautions

Overland transport (JT/T 617)

Classification code (JT/T 617) : F1.
Special provisions (JT/T 617) : 163, 367, 650.
Limited quantities (JT/T 617) : 500ml.
Excepted quantities (JT/T 617) : E3.
Packing instructions (JT/T 617) : P001.
Mixed packing provisions (JT/T 617) : MP7, MP17.
Portable tank and bulk container instructions (JT/T 617) : T11.
Portable tank and bulk container special provisions (JT/T 617) : TP1, TP8, TP27.
Tank codes (JT/T 617) : L4BN.
Vehicle for tank carriage (JT/T 617) : FL.
Transport category (JT/T 617) : 1.
Tunnel restriction code (JT/T 617) : D/E.
Special provisions for carriage - Operation (JT/T 617) : S2, S20.
Hazard identification number (JT/T 617) : 33.
Orange-coloured plate (JT/T 617) :



Transport by sea

Special provisions (IMDG) : 163, 367.
Limited quantities (IMDG) : 5 L.
Excepted quantities (IMDG) : E2.
Packing instructions (IMDG) : P001.
Special packing provisions (IMDG) : PP1.
IBC packing instructions (IMDG) : IBC02.
Tank instructions (IMDG) : T4.
Tank special provisions (IMDG) : TP1, TP8, TP28.
EmS-No. (Fire) : F-E.
EmS-No. (Spillage) : S-E.
Stowage category (IMDG) : B.
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E2.
PCA Limited quantities (IATA) : Y341.

Safety Data Sheet

Defender Ultra Shield 1.0

Compiled according to GB/T 16483, GB/T 17519
Revision date: 4/23/2025

PCA limited quantity max net quantity (IATA)	: 1L.
PCA packing instructions (IATA)	: 353.
PCA max net quantity (IATA)	: 5L.
CAO packing instructions (IATA)	: 364.
CAO max net quantity (IATA)	: 60L.
Special provisions (IATA)	: A3, A72, A192.
ERG code (IATA)	: 3L.

SECTION 15 Regulatory information

Dangerous Goods List (GB 12268-2012) : Contains listed substance(s).

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC) : Contains listed substance(s)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Catalogue of Hazardous Chemicals (2015) : Contains Hazardous Chemical(s)

Listed

Defender Ultra Shield 1.0

Considered as Hazardous Chemical(s)

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous Factors of Occupational Diseases : Contains listed substance(s)

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012) : Contains listed substance(s)

SECTION 16 Other information

Other information : None

Safety Data Sheet (SDS), China

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable