

CHUGOKU SAMHWA PAINTS Ltd.	MATERIAL SAFETY DATA SHEET	Date Of Issue	2020/03/09
MSDS - 3801898		Renewal Date	2023/01/03
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SECTION 1. CHEMICAL PRODUCT INFORMATION

Product Name	SEA GRANDPRIX 880 HS PLUS Brown		
Application	THE USE FOR SHIP		
Chemical description			
Hazard	Toxicity / Flammable liquid	Supplier	CHUGOKU SAMHWA PAINTS Ltd.
Manufacturer	CHUGOKU SAMHWA PAINTS, LTD	Telephone NO.	+82-55-340-0777
Address	#322, Gimhae-daero 927beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Korea	Department	Environment & Safety Team

SECTION 2. HAZARDOUS IDENTIFICATION

1. Classification of the substance

- ① FLAMMABLE LIQUIDS - category 3
- ② SKIN CORROSION/IRRITATION - category 2
- ③ EYE DAMAGE/IRRITATION - category 1
- ④ SENSITIZATION - RESPIRATORY - category 1
- ⑤ SENSITIZATION - SKIN - category 1
- ⑥ CARCINOGENICITY - category 2
- ⑦ REPRODUCTIVE TOXICITY - category 2
- ⑧ SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - category 1
- ⑨ ASPIRATION HAZARD - category 1
- ⑩ HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - category 1
- ⑪ HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - category 1

2. GHS warning label elements, including precautionary statements



① Symbol :

② Signal word : DANGER

③ Hazard statements : Flammable liquid and vapour

May be fatal if swallowed and enters airways

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

④ Precautionary statements :

PREVENTION - Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces.- No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

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④ Precautionary statements :

PREVENTION - Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

COUNTERMEASURE - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/showers.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water. IF IN EYES: Rinse cautiously with contact lenses, if present and easy to remove.

IF exposed or concerned: Get medical advice/attention.

Immediately call a POISON CENTER or doctor/physician.

Get medical advice/attention if you feel unwell.

Specific treatment (see on this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Take off contaminated clothing and wash before reuse.

In case of fire: Use a suitable fire extinguisher to extinguish the fire.

Collect spillage.

STORE - Store in a well-ventilated place. Keep cool.

Store locked up.

DISUSE - Dispose of contents/container according to the related law & regulatory.

SECTION 3.CHEMICAL COMPOSITION

Chemical Name	CAS NO.	Portion(%)	Remarks
5-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole	86347-14-0	< 1%	
Gum rosin	8050-09-7	1 ~ 10%	
Copper	7440-50-8	< 1%	
4,5-Dichloro-2-N-octyl-4-isothiazolin-3-one	64359-81-5	< 1%	
Silica, vitreous	60676-86-0	1 ~ 10%	
ISOBUTYL VINYL ETHER-VINYL CHLORIDE	25154-85-2	1 ~ 10%	
Talc (NON-ASBESTOS FORM)	14807-96-6	1 ~ 10%	
Titanium dioxide	13463-67-7	1 ~ 10%	
Aluminium oxide	1344-28-1	1 ~ 10%	
Xylene	1330-20-7	11 ~ 15%	
Dicopper oxide	1317-39-1	31 ~ 40%	
Copper monoxide	1317-38-0	1 ~ 10%	
Zinc oxide	1314-13-2	1 ~ 5%	
Diiron trioxide	1309-37-1	1 ~ 10%	
Ethylbenzene	100-41-4	1 ~ 10%	

SECTION 4.HEALTH HAZARD INFORMATION

1. Eye contact

Wash off immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Call a physician immediately.

2. Skin contact

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SECTION 4.HEALTH HAZARD INFORMATION

Remove the contaminated clothes and the skin will be washed with water and soap. Do not use solvents.

3. Inhalation

Move to fresh air and if he/she not breathes perform artificial respiration. Consult a physician if necessary.

4. Ingestion

Do not induce vomiting unless it is indicated by medical personnel.

Never give anything by oral tract to an unconscious. Get medical attention if symptoms appear.

5. Note to physician

Very small quantities of the product reached in lungs may be fatale. Ingestion of the product may cause chemical irritation that may diffuse to lungs and cause edema. Check carefully the victim and apply intubations in all ingestion cases for all important amounts.

SECTION 5.FIRE FIGHTING MEASURES

1. Suitable extinguishing media : Use dry chemical, CO₂ , water spray (fog) or foam

Unsuitable extinguishing media : Do not use water jet.

2. Specific hazards arising from the chemical :

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides

3. Special protective actions for fire-fighters :

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

4. Special protective equipment for fire-fighters :

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

SECTION 6.ACCIDENTAL RELEASE MEASURES

1. For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilled material. Shut off all ignition sources.

No flares, smoking or flames in hazard area. Do not breathe vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment.

2. For emergency responders : If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For nonemergency personnel".

3. Environmental precautions :

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution(sewers, waterways, soil or air) sent to incineration.

4. Methods and material for containment and cleaning up

A. Small spill : Stop leak if without risk. Move containers from spill area.

Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

B. Large spill : Stop leak if without risk. Move containers from spill area.

Use spark-proof tools and explosion-proof equipment. Approach the release from upwind.

Prevent entry into sewers, water courses, basements or confined areas.

Wash spillages into an effluent treatment plant or proceed as follows.

Contain and collect spillage with noncombustible,absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).

Dispose of via a licensed waste disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilt product.

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SECTION 6.ACCIDENTAL RELEASE MEASURES

* Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7.HANDLING AND STORAGE

- Precautions for safe handling
 - Protective measures : Put on appropriate personal protective equipment (see Section 8).
Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist.
Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated.
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source.
Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Use only non-sparking tools. Take precautionary measures against electrostatic discharges.
Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage, including any incompatibilities :
Store in accordance with local regulations. Store in a segregated and approved area.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up.
Eliminate all ignition sources. Separate from oxidizing materials.
Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
Use appropriate containment to avoid environmental contamination.

SECTION 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

1. Exposure limit values

Chemical Name	Cas No	Interior provision	ACGIH
5-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole	86347-14-0	No data	No data
Gum rosin	8050-09-7	No data	No data
Copper	7440-50-8	TWA : 0.1mg/m ³	TWA 0.2 mg/m ³
4,5-Dichloro-2-N-octyl-4-isothiazolin-3-one	64359-81-5	No data	No data
Silica, vitreous	60676-86-0	TWA : 0.1 mg/m ³	No data
ISOBUTYL VINYL ETHER-VINYL CHLORIDE	25154-85-2	No data	No data
Talc (NON-ASBESTOS FORM)	14807-96-6	TWA : 2 mg/m ³ NON-ASBESTOS FORM	TWA : 2 mg/m ³
Titanium dioxide	13463-67-7	TWA : 10 mg/m ³	TWA 10 mg/m ³
Aluminium oxide	1344-28-1	TWA : 10 mg/m ³	TWA 10 mg/m ³
Xylene	1330-20-7	TWA : 100 ppm STEL : 150 ppm	TWA 100 ppm STEL 150 ppm
Dicopper oxide	1317-39-1	No data	TWA 1 mg/m ³
Copper monoxide	1317-38-0	No data	TWA 1 mg/m ³
Zinc oxide	1314-13-2	TWA : 5mg/m ³ , STEL : 10mg/m ³	TWA 2 mg/m ³ STEL 10 mg/m ³
Diiron trioxide	1309-37-1	TWA 5 mg/m ³	TWA 5 mg/m ³
Ethylbenzene	100-41-4	TWA : 100 ppm STEL : 125 ppm	TWA 20 ppm

2. Hygiene measures :

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.

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Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

3. Eye/face protection :

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.

If inhalation hazards exist, a full-face respirator may be required instead.

4. Skin protection :

A. Hand protection : Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

* NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to:

Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions / specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

B. Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

When there is a risk of ignition from static electricity, wear anti-static protective clothing.

For the greatest protection from static discharges, clothing should include anti-static overalls, boots and glove

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|-------------------------------------|
| 1. Appearance : colored and opaque liquid | 9. Explosive properties : 1.1 ~ 8 |
| 2. Odor : solvent specific | 10. Vapor pressure : 2,133 |
| 3. pH : Not applicable | 11. Vapor density : No data |
| 4. Melting point : No data | 12. Solubility : Water-insoluble |
| 5. Boiling point(°C) : 117 ~ 144.4 | 13. Partition coefficient : No data |
| 6. Flash point : 23.1 °C | 14. Specific gravity : 2.08 |
| 7. Evaporation rate : No data | 15. Viscosity(25°C) : 110KU |
| 8. Autoignition temperature : 432 °C | |

SECTION 10. STABILITY AND REACTIVITY

- Reactivity : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability : The product is stable.
- Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid : Avoid all possible sources of ignition (spark or flame).
- Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:
oxidizing agents, strong alkalis, strong acids.

SECTION 11. TOXICOLOGICAL INFORMATION

1. Toxicity Information

Chemical Name	LD50.Oral	LD50.Skin	LD50.Inhalation (gas)	LD50.Inhalation (vapour)	LD50.Inhalation (mist)
5-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole	LD50 >31.25 mg/kg Rat (NCIS)	LD50 >2000 mg/kg Rat (NCIS)	No data	No data	LC50 0.14 mg/ℓ 4 hr Rat(NCIS)
Gum rosin	LD50 = 7800 mg/kg Rat(IUCLID)	LD50 = 2500 mg/kg rabbit	No data	No data	LC50 = 2.3 mg/ℓ 4 hr Rat

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SECTION 11.TOXICOLOGICAL INFORMATION					
1. Toxicity Information					
Chemical Name	LD50.Oral	LD50.Skin	LD50.Inhlation (gas)	LD50.Inhlation (vapour)	LD50.Inhlation (mist)
Copper	LD50 300 ~ 500 mg /kg Rat	LD50 >2000 mg/kg Rat	No data	No data	LC50 >5.11 mg/ ℓ 4 hr Rat
4,5-Dichloro-2-N-octyl-4-isothiazolin-3-	LD50 756 mg/kg Rat	LD50 680 mg/kg Rabbit	No data	No data	LC50 0.29 mg/kg 4 hr Rat
Silica, vitreous	No data	No data	No data	No data	No data
ISOBUTYL VINYL ETHER-VINYL CHLORIDE	No data	No data	No data	No data	No data
Talc (NON-ASBESTOS FORM)	LD50 >5000 mg/kg Rat(ECHA)	LD50 >2000 mg/kg Rat(ECHA)	No data	No data	LC50 >2.1 mg/ ℓ 4 hr Rat(ECHA)
Titanium dioxide	LD50 >2000 mg/kg Mouse (ECHA)	No data	No data	No data	LC50 >6.82 mg/ ℓ Rat (ECHA)
Aluminium oxide	LD50 > 5000 mg/kg Rat	No data	No data	No data	No data
Xylene	LD50 3523 mg/kg , Rat (ECHA)	LD50 > 4200 mg/ kg Rabbit (EU)	No data	LC50 6700 ppm 4 hr , Rat(EU CLP)	No data
Dicopper oxide	LD50 1340 mg/kg Rat (ECHA)	LD50 >2000 mg/kg Rat(ECHA)	No data	No data	LC50 3.34 mg/ ℓ 4 hr Rat (ECHA)
Copper monoxide	LD50 >2500 mg/kg Rat (ECHA)	LD50 >2000 mg/kg Rat (ECHA)	LD50 >2000 mg/kg Rat	No data	No data
Zinc oxide	LD50 >5000 mg/kg, Rat (ECHA)	LD50 >2000 mg/ kg, Rat (ECHA)	LC50 >5700 mg/m³ 4 hr Rat (ECHA)	No data	No data
Diiron trioxide	LD50 >10000 mg/kg Rat (ECHA)	No data	No data	No data	LC50 5.05 mg/ ℓ 4 hr Rat (ECHA)
Ethylbenzene	LD50 = 3500 mg/kg Rat (ECHA, HSDB)	LD50 >20000 mg/ kg, Rabbit	No data	LC50 4000 ppm 4 hr, Rat(ECHA, EU)	No data
* Carcinogenic effects :Suspected of causing cancer					
SECTION 12.ECOLOGICAL INFORMATION					
1. Ecological Information					
Chemical Name	LC50.fish	LC50.water fleas	LC50.algae		
5-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole	LC50 30 mg/ ℓ 96 hr Brachydanio	EC50 4.5 mg/ ℓ 48 hr Daphnia magna(NCIS)	ErC50 0.65 mg/ ℓ 72 hr		
Gum rosin	No data	EC50 = 4.5 mg/ ℓ 48 hr	No data		
Copper	LC50 = 0.37 mg/ ℓ 96 hr	EC50 = 0.0318 mg/ ℓ 48 hr	LC50 = 0.092 mg/ ℓ 15 hr		
4,5-Dichloro-2-N-octyl-4-isothiazolin-3-one	LC50 = 0.0027 mg/ ℓ 96 hr	EC50 = 0.0052 mg/ ℓ 48 hr Daphnia	EC50 = 0.018 mg/ ℓ 96 hr		
Silica, vitreous	No data	No data	No data		
ISOBUTYL VINYL ETHER-VINYL CHLORIDE	No data	No data	No data		
Talc (NON-ASBESTOS FORM)	LC50 89581.016 mg / ℓ 96 hr Fishes	LC50 36812.359 mg/ ℓ 48 hr Daphnid	EC50 7202.7 mg/ ℓ 96 hr Green		
Titanium dioxide	LC50 > 100 mg/ ℓ 96 hr Carassius	LC50 > 500 mg/ ℓ 48 hr Daphnia	EC50 > 50 mg/ ℓ 72 hr		
Aluminium oxide	No data	No data	No data		
Xylene	No data	No data	No data		
Dicopper oxide	LC50 193 µg/ ℓ 96 hr Pimephales	LC50 0.35 mg/ ℓ 48 hr Crustaceans(ECHA)	NOEC 30 µg/ ℓ 7 day Lemna minor		
Copper monoxide	LC50 193 µg/ ℓ 96 hr Pimephales	EC50 0.0926 mg/ ℓ 48 hr Daphnia magna	NOEC 30 µg/ ℓ 7 day Lemna minor		
Zinc oxide	LC50 315 µg/ ℓ 96 hr Thymallus	LC50 1220 µg/ ℓ 48 hr Daphnia magna	EC10 350 µg/ ℓ 48 hr Chlorella		
Diiron trioxide	LC0 ≥ 50000 mg/ ℓ 96 hr ZIEI	EC50 > 100 mg/ ℓ 48 hr(ECHA)	No data		

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SECTION 12.ECOLOGICAL INFORMATION

1. Ecological Information

Chemical Name	LC50.fish	LC50.water fleas	LC50.algae
Ethylbenzene	LC50 5.1 mg/ℓ 96 hr(ECHA)	LC50 1.8 mg/ℓ 48 hr Daphnia magna(ECHA)	EC50 2.6 mg/ℓ 96 hr

- Soil mobility : Not known
- Persistence and degradability : There is no specific data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where they can affect ground or surface waters.
- Potential bioaccumulation : Be possible.

SECTION 13.DISPOSAL CONSIDERATION

- Disposal methods : The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Waste removal measures : This material and its container must be disposed of in a safe way.
Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
Empty containers or liners may retain some product residues.
Vapor from product residues may create a highly flammable or explosive atmosphere inside the container.
Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14.TRANSPORT INFORMATION

- Classification by shipping transportaiton dangerous substance and regulation of storage : Class 3. Flammable
- Direction for transport
The product must be kept in original container tightly closed and transport at normal temperature.
- International Martitie Dangerous Goods Code
U.N Number : 1263
Shipping name : Paint, Flammable
Class / Sub: 3
Packing group : III
- Marine pollutant : Applicable
- Special precautions for user related to transport or transportation measures :

15.REGULATORY INFORMATION

- Article of KOREA OCCUPATIONAL SAFETY _HEALTY AGENCY : Not determined.
- Article of Harmful Chemical Substance : Not applicable
- Classify of The Fire Service Act : Fourth grade 2nd.Petroleum

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SECTION 16.OTHER INFORMATION

1. The information on this SDS is based upon the present state of our knowledge and on current law.

The purpose of this SDS is to describe the products in terms of their safety requirements.

The data does not signify any warranty with regard to the products properties.
2. Issued date : 2020/03/09
3. Revision _date : 4 Times 2023/01/03
4. Others :

To the best of our knowledge, the information contained herein is accurate.

However, neither the above-named supplier, nor any of its subsidiaries,

assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.