

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

SECTION 1. IDENTIFICATION

Product name: Shield Armor #K23

Manufacturer/Supplier:
Detailer's Choice Inc.
1754 N. White Ave.
Laverne, CA 91750

Telephone Number: (909) 510-2506
E-mail: sales@carcarechoice.com

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids	Category 2
Serious eye damage	Category 1
Carcinogenicity	Category 2
Specific target organ systemic toxicity - single exposure	Category 3
Specific target organ systemic toxicity - repeated exposure	Category 1 (Central nervous system)
Specific target organ systemic toxicity - repeated exposure	Category 2 (Liver, Kidney, Auditory system)
Aspiration hazard	Category 1

GHS label elements

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018



Hazard pictograms

Signal Word

Danger

Hazard Statements

H225 Highly flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness. H351
Suspected of causing cancer. H372
Causes damage to organs (Central nervous system) through
prolonged or repeated exposure. H373 May
cause damage to organs (Liver, Kidney, Auditory system)
through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P210 Keep away from sparks/open flames/hot surfaces. No
smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment. P241
Use explosion-proof electrical/ ventilating/ lighting/
equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye
protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON
CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off
immediately all contaminated clothing. Rinse skin with
water/shower.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static-accumulating flammable liquid.

Repeated exposure may cause skin dryness or cracking.

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance I Mixture

Mixture

Chemical nature

Inorganic and organic compounds

Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Stoddard solvent	8052-41-3	>= 25 - <= 55
Tetraisopropoxy titanate	546-68-9	>= 7 - <= 17
Xylene	1330-20-7	>= 5 - <= 11
2-Ethylhexane-1,3-diol	94-96-2	>= 2 - <= 8
Nonane	111-84-2	>= 1.2 - <= 2.7
Trimethylbenzene	25551-13-7	>= 1.2 - <= 2.7

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Ethylbenzene	100-41-4	$\geq 1.1 - \leq 2.5$
Cumene	98-82-8	$\geq 0.25 - \leq 0.55$
Naphthalene	91-20-3	$\geq 0.12 - \leq 0.27$

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward Call a Physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Most important symptoms and effects, both acute and delayed May be fatal if swallowed and enters airways. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.
Prolonged or repeated contact may dry skin and cause irritation.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Protection of First-Aiders First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing Media High volume water jet
Specific hazards during fire Do not use a solid water stream as it may scatter and spread fire.
Fighting Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion production Carbon oxides
Silicon oxides
Formaldehyde
Metal oxides

Specific extinguishing methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.
Use Personal protective Equipment.

Personal precautions, protective equipment and emergency procedures Ventilate the area.
Use personal protective equipment
Follow safe handling advice and personal protective equipment recommendations

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures

ensure all equipment is electrically grounded before beginning transfer operations.
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.
Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation

Use with local exhaust ventilation.
Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential.

Advice on safe handling

Do not get on skin or clothing.
Do not breathe vapors or spray mist. Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety Practice, based on the results of the workplace exposure Assessment.
Non-sparking tools should be used. Keep container tightly closed.
Keep away from water. Protect from moisture.

Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Conditions for safe storage	Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350 mg/m ³	NIOSH REL
		C	1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,900 mg/m ³	OSHA Z-1
Xylene	1330-20-7	TWA	100 ppm 435 mg/m ³	OSHAZ-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
Nonane	111-84-2	TWA	200 ppm	ACGIH
		TWA	200 ppm 1,050 mg/m ³	NIOSH REL
Trimethylbenzene	25551-13-7	TWA	25 ppm	ACGIH
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

	TWA	100 ppm 435 mg/m ³	OSHAZ-1
	TWA	100 ppm 435 mQ/m ³	NIOSH REL

Cumene	98-82-8	ST	125 ppm 545 mg/m ³	NIOSH REL
		TW	50 ppm	ACGIH NIOSH
		A	50 ppm	REL
		TW	245 mg/m ³	
Naphthalene	91-20-3	A		
		TWA	50 ppm 245 mg/m ³	OSHA Z-1
		TWA	10 ppm	ACGIH
		TWA	10 ppm	NIOSH REL
			50 mg/m ³	
		ST	15 ppm 75 mg/m ³	NIOSH REL
		TWA	10 ppm 50 mg/m ³	OSHAZ-1

Hazardous components without workplace control parameters

Ingredients	Gas-No
Tetraisopropoxy titanate	546-68-9
2-Ethylhexane-1,3-diol	94-96-2

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (form of exposure)	Control parameters/ Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			980 mg/m ³	
		ST	500 ppm	NIOSH REL
			1,225 mg/m ³	
		TWA	400 ppm	OSHA Z-1

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

980 mg/m³

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible Basis concentra- tion
Xylene	1330-20-7	Methylhippuric acids	Urine	End of (As soon as possible after exposure ceases)	1.5 <i>gig</i> shift creatinine BEi ACGIH
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of (As soon as possible after exposure ceases)	0.15 <i>gig</i> shift creatinine BEi ACGIH
Engineering measures		Processing may form hazardous compounds (see section			

10).

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential
Use with local exhaust ventilation.

Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m³

Personal protective equipment - respirable particles, 10 mg/m³ - inhalable particles.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Respiratory protection General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection Material Chemical-resistant gloves

Remarks Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

Eye protection Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear face-shield.

Skin and body protection Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing, unless assessment demonstrates that the risk of explosive atmospheres or flash fires is low.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).

Hygiene measures ensure that eye flushing systems and safety showers are located close to the working place.

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Chemical customer service group.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color	liquid
Odor	No data available
Odor Threshold pH	solvent
Melting poinVfreezing point	No data available
Initial boiling point and boiling range	> 100 °C
Flash point	13.3°C Method: Pensky-Martens closed cup
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Self-ignition	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self-heating.
Upper explosion limit / Upper	No data available
Flammability limit	
Lower explosion limit /	No data available
Lower flammability limit	
Vapor pressure No data available	Relative vapor density No data available
Relative density	0.89
Solubility (ies) No data available	Water solubility

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Partition coefficient:	No data available noctanol/water
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	15 est (25°C)
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available
Particle size	Not applicable

SECTION 10. STABILITY AND REACTIVIT

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions
Possibility of hazardous Reactions	highly flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	Exposure to moisture. Handling operations that can promote accumulation of static charges. Heat, flames and sparks.
Incompatible Materials	Oxidizing agents Water

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Hazardous decomposition products

Contact with water or Humid air Propan-2ol
Thermal decomposition formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Product:

Acute oral toxicity	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute Inhalation toxicity	Acute toxicity estimate: 120.78 mg /l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: On basis of test data

Ingredients:

Stoddard solvent:

Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute Inhalation toxicity	LC50 (Rat): > 5.5 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity
Acute Thermal Toxicity	LD50:> 5,000mg/kg

Tetraisopropoxy titanate:

Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
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SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Acute Inhalation toxicity LC50 (Rat): > 37.4 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Remarks: Based on data from similar material

Acute Thermal Toxicity LD50(Rabbit) >5,000mg/kg
Remarks: Based on data from similar material

Xylene:

Acute oral toxicity LD50 (Rat): > 4,300 mg/kg
Method: Directive 67/548/EEC, Annex V, 8.11

Acute Inhalation toxicity LC50 (Rat): > 27.5 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Acute toxicity estimate: 11 mg/l Exposure time: 4 h
Test atmosphere: vapor
Method: Expert judgment

Remarks: Based on harmonized classification in EU regulation 1272/2008, Annex VI

Acute Thermal Toxicity Acute toxicity estimate: 1,100 mg/kg Method: Expert judgment
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

2-Ethylhexane-1,3-diol:

Acute oral toxicity LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity LD50 (Rabbit): > 5,000 mg/kg

Nonane:

Acute oral toxicity LD50 (Rat): > 5,000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity Remarks:
Based on data from similar materials

Trimethylbenzene:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Acute oral toxicity LD50 (Rat): 6,000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity LD50 (Rat): > 3,440 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Ethylbenzene:

Acute oral toxicity LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity LC50 (Rat): 17.2 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity LD50 (Rabbit): > 5,000 mg/kg

Cumene:

Acute oral toxicity LD50 (Rat): 2,700 mg/kg
Acute dermal toxicity LD50 (Rabbit): > 5,000 mg/kg

Naphthalene:

Acute oral toxicity LD50 (Mouse): 553 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity LC50 (Rat): > 0.4 mg/l
Exposure time: 4 h Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity LD50 (Rat): > 2,500 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: Mild skin irritation Remarks: On basis of test data.

Ingredients:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Stoddard solvent:

Assessment: Repeated exposure may cause skin dryness or cracking.

Tetraisopropoxy titanate:

Rabbit

Result: No skin irritation

Xylene:

Species: Rabbit

Result: Skin Irritation

Trimethylbenzene:

Species: Rabbit

Result: Skin irritation

Remarks: Based on data from similar materials

Cumene

Species: Rabbit

Result: No skin irritation

Naphthalene

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation Causes serious eye damage.

Ingredients:

Stoddard solvent: Species:

Rabbit

Result: No eye irritation

Tetraisopropoxy titanate:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Xylene:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

2-Ethylhexane-1,3-diol:

Species: Rabbit

Result: Irreversible effects on the eye

Nonane:

Species: Rabbit Result: No eye irritation

Remarks: Based on data from similar materials

Trimethylbenzene:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Remarks: Based on data from similar materials

Ethylbenzene:

Species: Rabbit

Result: No eye irritation

Cumene:

Species: Rabbit Result: No eye irritation

Naphthalene:

Guinea pig Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization Not classified

based on available information.

Ingredients:

Stoddard solvent:

Routes of exposure: Skin contact Species: Guinea pig Result: negative

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Tetraisopropoxy titanate:

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig
Method: OECD Test Guideline 406 Result: negative

Xylene:

Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact
Species: Mouse
Method: OECD Test Guideline 429 Result: negative

Nonane:

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Trimethylbenzene:

Test Type: Maximization
Test Routes of exposure: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Ethylbenzene:

Test Type: Human repeat insult patch test (HRIPT) Routes of exposure: Skin contact Result: negative

Cumene:

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig Result: negative

Naphthalene

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig
Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Stoddard solvent:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test Result: negative
Remarks: Based on data from similar materials

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Genotoxicity in vivo

Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

Tetraisopropoxy titanate

Genotoxicity in vitro Test Type: Bacterial reverse
mutation assay (AMES) Method: OECD Test Guideline 471
Result:
negative

Genotoxicity in vivo

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: intraperitoneal injection Result: negative
Remarks: Based on data from similar materials

Xylene:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro Result: negative
Test Type: In vitro sister chromatid exchange assay in mammalian cells Result:
negative

Penotoxicity in vivo

Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Skin contact
Result: negative

Nonane:

renotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Trimethylbenzene:

Genotoxicity in vitro Test Type: Bacterial reverse
mutation assay (AMES) Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vitro
assay) Species: Mouse

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Application Route: intraperitoneal injection Result:
negative
Remarks: Based on data from similar materials

Ethylbenzene:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: In vitro mammalian cell gene mutation test Method:
OECD Test Guideline 476 Result:
negative

Genotoxicity in vitro

Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Mouse
Application Route: Inhalation
Method: OECD Test Guideline 486 Result:
negative

Cumene:

Genotoxicity in vitro Test Type:
Chromosome aberration test in vitro Method: OECD
Test Guideline 473 Result:
negative

Genotoxicity in vitro

Test Type: In vivo micronucleus test
Species: Mouse

Application Route: intraperitoneal injection
Method: OECD Test Guideline 474 Result:
negative

Naphthalene

Genotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: Chromosome aberration test in vitro Result:
positive

Genotoxicity in vitro

Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion Result:
negative

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Carcinogenicity

Suspected of causing cancer. Ingredients:

Tetraisoopropoxy titanate:

Species: Rat
Application Route: inhalation (vapor)
Exposure time: 104 weeks
Result: negative
Remarks: Based on data from similar materials

Xylene:

Species: Rat
Application Route: Ingestion
Exposure time: 103 weeks
Result: negative

Ethylbenzene:

Species: Rat
Application Route: Inhalation
Exposure time: 104 weeks
Result: positive
Remarks: The mechanism or mode of action may not be relevant in humans.

Cumene:

Species: Rat
Application Route: inhalation (gas)
Exposure time: 105 weeks

Result: negative

Naphthalene:

Species: Rat
Application Route: inhalation (vapor)
Exposure time: 105 weeks

IARC

Limited evidence of carcinogenicity in animal studies
Group 2B: Possibly carcinogenic to humans
Ethylbenzene 100-41-4

Cumene 98-82-8
Naphthalene 91-20-3

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

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 Reasonably anticipated to be a human carcinogen

Cumene	98-82-8
Naphthalene	91-20-3

Reproductive toxicity

Not classified based on available information.

Ingredients:

Tetraisopropoxy titanate:

Effects on fetal development

Xylene:

Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fertility

Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Effects on fetal development

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor) Method: OECD Test Guideline 416

Result: negative
Remarks: Based on data from similar materials

Nonane:

Effects on fertility

Trimethylbenzene:

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor) Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on fertility

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor) Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Effects on fetal development Test Type: Embryo-fetal development
Species: Rat
Application Route: inhalation (vapor)
Result: negative
Remarks: Based on data from similar materials

Ethylbenzene:

Effects on fertility Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Method: OECD Test Guideline 415
Result: negative

Effects on fetal development Test Type: Embryo-fetal development
Cumene: Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: negative

Effects on fertility Species: Rat, male
Application Route: inhalation (vapor)
Result: negative

Effects on fetal development Test Type: Embryo-fetal development
Naphthalene: Species: Rat
Application Route: inhalation (vapor)
Method: OECD Test Guideline 414
Result: negative

Effects on fetal development Test Type: Embryo-fetal development

Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

STOT-single exposure May
cause drowsiness or dizziness.

Ingredients:

Stoddard solvent:

Assessment: May cause drowsiness or dizziness.

Tetraisopropoxy titanate:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Assessment: May cause drowsiness or dizziness.

Xylene:

Assessment: May cause respiratory irritation.

Nonane:

Assessment: May cause drowsiness or dizziness.

Trimethylbenzene:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness. Remarks: Based on data from similar materials

Cumene:

Assessment: May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure. May cause damage to organs (Liver, Kidney, Auditory system) through prolonged or repeated exposure.

Ingredients:

Stoddard solvent:

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Xylene:

Routes of exposure: inhalation (vapor)

Target Organs: Central nervous system, Liver, Kidney

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

Ethylbenzene:

Routes of exposure: inhalation (vapor) Target Organs: Auditory system

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

Naphthalene:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Exposure: inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Repeated dose toxicity Ingredients:

Stoddard solvent:

Species: Rat NOAEL: 2.34 mg/l

LOAEL: 4.67 mg/l

Application Route: inhalation (vapor)

Exposure time: 6 Months

Tetraisopropoxy titanate:

Species: Rat NOAEL: 12.3 mg/l

Application Route: inhalation (vapor)

Exposure time: 13 Weeks

Method: OECD Test Guideline 413

Remarks: Based on data from similar materials

Xylene:

Species: Rat NOAEL: 4.35 mg/l

Application Route: inhalation (vapor)

Exposure time: 90 Days

Nonane:

Species: Rat NOAEL: 100 mg/kg

Application Route: Ingestion

Exposure time: 90 Days

Method: OECD Test Guideline 408

Species : Rat NOAEL: 8.4 mg/l

Application Route: inhalation (vapor)

Exposure time: 13 Weeks

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Trimethylbenzene:

Species: Rat NOAEL: 1.8 mg/l

Application Route: inhalation (vapor)

Exposure time: 12 Months

Remarks: Based on data from similar materials

Ethylbenzene:

Species: Rat, female LOAEL: 75 ppm Application

Route: inhalation (vapor)

Exposure time: 104 Weeks

Cumene:

Species: Rat NOAEL: 125 ppm

LOAEL: 250 ppm

Application Route: inhalation (vapor)

Exposure time: 90 Days

Naphthalene:

Species: Mouse NOAEL: 133 mg/kg

Application Route: Ingestion

Exposure time: 90 Days

Method: OECD Test Guideline 408

Species: Rat NOAEL: 0.011 mg/l

Application Route: inhalation (vapor) Exposure time: 13 Weeks

Method: OECD Test Guideline 413

Species: Rat NOAEL: 300 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Method: OECD Test Guideline 411

Aspiration toxicity

May be fatal if swallowed and enters airways.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Ingredients:

Stoddard solvent:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

Nonane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

Trimethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Cumene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure Ingredients:

Stoddard solvent:

Inhalation	Target Organs: Central nervous system
	Symptoms: Dizziness, Headache, Neurological disorders

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Ingredients:

Stoddard solvent:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): 1.2 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Tetraisopropoxy titanate:	NOELR (Daphnia magna (Water flea)): 0.097 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae Xylene:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish aquatic invertebrates	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	EC10 (Pseudokirchneriella subcapitata (green algae)): 1.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to fish (Chronic toxicity)	NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l Exposure time: 56 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	EC10 (Daphnia magna (Water flea)): 1.91 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Toxicity to microorganisms	EC50: > 157 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials

2-Ethylhexane-1,3-diol:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Toxicity to fish LC50 (Ictalurus punctatus (channel catfish)): 624 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae **Nonane:** EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other EC50 (Daphnia magna (Water flea)): 0.2 mg/l
Exposure time: 48 h aquatic invertebrates

M-Factor (Acute aquatic toxicity)
M-Factor (Chronic aquatic toxicity)

Trimethylbenzene:

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 3.6 mg/l
Exposure time: 48 h

Ethylbenzene:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l
Exposure time: 48 h
Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)): 5.4 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l
(Chronic toxicity) Exposure time: 7 d

Toxicity to microorganisms EC50 (Nitrosomonas sp.): 96 mg/l
Cumene: Exposure time: 24 h
Method: OECD Test Guideline 209

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 4.8 mg/l
Exposure time: 96 h

Toxicity to daphnia and other EC50 (Daphnia magna (Water flea)): 2.14 mg/l

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	ErC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC10 (Desmodesmus subspicatus (green algae)): 1.35 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 0.35 mg/l Exposure time: 21 d

Naphthalene:

Toxicity to fish Exposure time: 96 h	LC50 (Pimephales promelas (fathead minnow)): 6.08 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 2.16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	EC50 (Skeletonema costatum (marine diatom)): 0.4 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	
Toxicity to fish (Chronic toxicity)	NOEC (Oncorhynchus kisutch (coho salmon)): 0.37 mg/l Exposure time: 40 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia pulex (Water flea)): 0.59 mg/l Exposure time : 125 d
Toxicity to microorganisms	IC50 (Nitrosomonas sp.): 29 mg/l Exposure time: 24 h

Persistence and degradability Ingredients:

Stoddard solvent:

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Biodegradability Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d

Tetraisopropoxy titanate:

Biodegradability Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 20 d
Remarks: Based on data from similar materials

Xylene:

Biodegradability Result: Readily biodegradable.
Biodegradation: 87.8 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

2-Ethylhexane-1,3-diol :

Biodegradability **Nonane:** Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD Test Guideline 301

Biodegradability Result: Readily biodegradable.
Trimethylbenzene: Biodegradation: 100 %
Exposure time: 25 d

Biodegradability Result: Not readily biodegradable.
Biodegradation: 4 - 18 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
Remarks: Based on data from similar materials

Ethylbenzene:

Biodegradability Result: Readily biodegradable.
Biodegradation: 70 - 80 % Exposure time:
28 d

Cumene:

Biodegradability Result: Readily biodegradable.
Naphthalene: Biodegradation: 70 % E
Exposure time: 20 d

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Biodegradability Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 4 Weeks
Method: OECD Test Guideline 302

Bioaccumulative potential

Ingredients:

Stoddard solvent:

Partition coefficient: n log Pow: > 4
octanol/water Remarks: Expert judgment

Xylene:

Bioaccumulation Species: Oncorhynchus mykiss (rainbow trout)
Bio concentration factor (BCF): 5.4 - 25.9

Partition coefficient: log Pow: 3.12 - 3.2
noctanol/water

Nonane:

Partition coefficient: log Pow: 5.65
noctanol/water

Trimethylbenzene:

Partition coefficient: og Pow: > 3.5
noctanol/water Remarks: Based on data from similar materials

Ethylbenzene:

Bioaccumulation Species: Fish
Bio-concentration factor (BCF): < 100
Remarks: Based on data from similar material

Partition coefficient: log Pow: 3.6
noctanol/water

Cumene:

Partition coefficient: log Pow: 3.55
noctanol/water

Naphthalene:

Bioaccumulation Species: Cyprinus carpio (Carp)
Bio concentration factor (BCF): 36.5 - 168
Method: OECD Test Guideline 305

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Partition coefficient: log Pow: 3.4
noctanol/water

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA) when a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste

Waste Code 0001: ignitability
0018

Waste from residues Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other Sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number UN 1993
Proper shipping name FLAMMABLE LIQUID, N.O.S.
(Ethylbenzene, Stoddard solvent)

Class 3

Packing group II

Labels 3

IATA-DGR

UN/ID No. UN1993
Proper shipping name Flammable liquid, n.o.s. (Ethylbenzene, Stoddard solvent)

Class 3

Packing group Labels II

Packing instruction (cargo aircraft) Flammable Liquids

Packing instruction 353

(passenger aircraft)

Shield Armor #K23-30ml

IMDG-Code

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

49CFR

Class	3
Packing group	II
Labels	
FLAMMABLE LIQUID	
ERG Code	128
Marine pollutant	yes(Stoddard solvent, Nonane)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	7	(lbs)	(lbs)	CAS-No. 1330-20-100	Component RQ 1258	Calculated product RQ
91-20-3		100	50505	Xylene	Naphthalene	
Ethylbenzene			100-41-4		1000	55005

SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RO.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPO.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

SARA 311/312 Hazards Flammable (gases, aerosols, liquids, or solids)

Hazard not otherwise classified (physical hazards)

Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 The following components are subject to reporting levels established by SARA Title 111, Section 313:

Xylene	1330-20-7	$\geq 5 - \leq 11$ %
Ethylbenzene	100-41-4	$\geq 1.1 - \leq 2.5$ %
Naphthalene	91-20-3	$\geq 0.12 - \leq 0.27$ %

US State Regulations

Pennsylvania Right to know

Stoddard solvent	8052-41-3
Trimethylated silica	68988-56-7
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9
Tetraisopropoxy titanate	546-68-9
Xylene	1330-20-7
2-Ethylhexane-1,3-diol	94-96-2
Nonane	111-84-2
Trimethylbenzene	25551-13-7
Ethylbenzene	100-41-4
Cumene	98-82-8
Naphthalene	91-20-3

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Propan-2-ol
Toluene

67-63-0
108-88-3

California Prop. 65

WARNING: This product can expose you to chemicals including Ethylbenzene, Cumene, Naphthalene, Benzene, which is/are known to the State of California to cause cancer, and Toluene, Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Stoddard Solvent	8052-41-3
Xylene	1330-20-7

California Permissible Exposure Limits for Chemical Contaminants

Stoddard solvent	8052-41-3
Xylene 1330-20-7 Nonane 111-84-2	
Trimethylbenzene	25551-13-7
Ethylbenzene	100-41-4

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

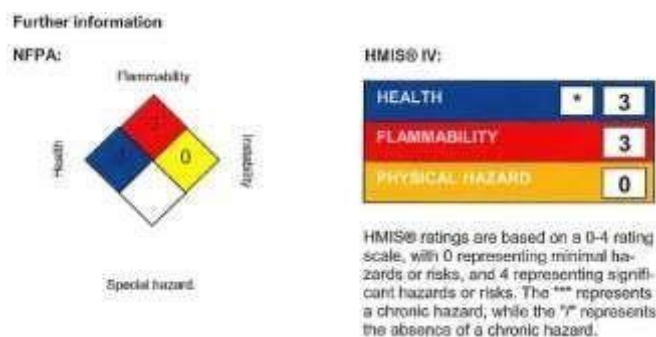
Currently pre/registered or exempt under	REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Chemical legal entities with the intention to export into EEA please contact your DC representative/local office.
TSCA	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
AICS	All ingredients listed or exempt.
IECSC	All ingredients listed or exempt.
KECI	All ingredients listed, exempt or notified.
PICCS	All ingredients listed or exempt.
DSL	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
TCSI	All ingredients listed or exempt.

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

SECTION 16. OTHER INFORMATION



USA. ACGIH Threshold Limit Values (TLV)
ACGIH - Biological Exposure Indices (BEi)
USA. NIOSH Recommended Exposure Limits
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
8-hour, time-weighted average Short-term exposure limit

NIOSH REL/TWA	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/ ST	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL /C	Ceiling value not be exceeded at any time.
OSHA Z-1 / TWA	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous

SAFETY DATA SHEET

Shield Armor #K23-30ml

Version Revision Date: Date of last issue: 04/14/2019 8.0 04/14/2019 Date of first issue: 02/07/2018

Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Ko- rea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50

- Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio accumulative.

Sources of key data used internal technical data, data from raw material SDSs, OECD eChem Portal search results to compile the Material and European Chemicals Agency <http://echa.europa.eu/> Safety Data Sheet

Revision Date 4/01/2019

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SOS material in the user's end product, if applicable.

US /Z8