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1 Identification

· Product number: CW409

· Product name: Satin Armor 2k - PART B (Hardener)

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

Manufacture of substances: Formulations: Manufacture of paints and varnishes Industrial use: Professional use: Uses advised against: Consumer use: For further information, refer to section 16. • Application of the substance / the mixture

For further information, refer to the product technical data sheet.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Classic Coatings Systems 255 Citation Circle Corona, CA 92881 USA Tel.: +1 951 279 2600 Fax: +1 714 276 9696 www.ClassicCoatingsSystems.com

· Information department: carlos@classiccoatingssystems.com

• Emergency telephone number: FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: Emergency Response Service: (800) 535-5053

2 Hazard(s) identification

\cdot Classification of the substance or mixture

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Acute Tox. 4 H332 Harmful if inhaled.

Acute Tox. 4 H332 Harmiul II Innaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms**



· Signal word Danger

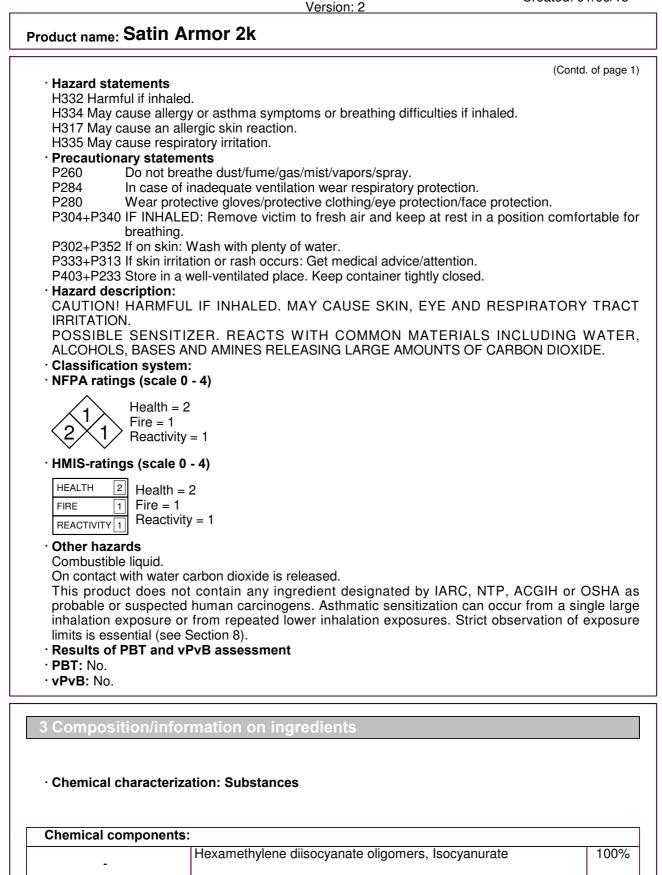
· Hazard-determining components of labeling:

Hexamethylene diisocyanate oligomers, Isocyanurate hexamethylene-di-isocyanate

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hexamethylene-di-isocyanate

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< 0.2%

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4 First-aid measures
 Description of first aid measures General information:
Immediately remove any clothing soiled by the product. Use appropriate protective equipment when treating a contaminated person.
Place contaminated clothing in a sealed bag for disposal.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· After inhalation:
Move the person away from the contaminated area.
Fresh air and rest.
Seek immediate medical advice.
Show this sheet to the doctor.
· After skin contact:
Wash with soap and water.
Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
In case of inflammation (redness, irritation,) obtain medical attention.
· After eye contact:
Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while
keeping the eyes wide open.
If irritation persists, consult a doctor.
Show this sheet to the doctor.
· After swallowing:
NEVER attempt to induce vomiting. Rinse mouth out with water.
Do not give anything to drink.
If necessary seek medical advice.
Show this sheet to the doctor.
 Most important symptoms and effects, both acute and delayed No further relevant information available.
· Danger
Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing
chronic respiratory problems such as asthma, emphysema or bronchitis. • Indication of any immediate medical attention and special treatment needed
All treatments should be based on observed signs and symptoms of distress in the patient.
Consideration should be given to the possibility that overexposure to materials other than this
product may have occurred.
Treat symptomatically. No specific antidote available.
5 Eiro fighting mocouroo
5 Fire-fighting measures
· Extinguishing media
· Suitable extinguishing agents:
Foam
Powders
Carbon dioxide
Dry chemical
· For safety reasons unsuitable extinguishing agents: Water
· Special hazards arising from the substance or mixture
Combustible.
During combustion toxic vapors are released.
Under fire conditions, corrosive fumes are emitted: oxides of nitrogen oxides of carbon.
Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in
confined spaces.
· Advice for firefighters
· Protective equipment:
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full
protective clothing.
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Additional information Stay upwind. Evacuate the personnel away from the fumes. In case of fire close by: Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product. Do not breathe fumes. Do NOT attempt to fight the fire without suitable protective equipment. If there is a fire close by and if packaging has not been damaged: Use suitable extinguishers.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures
Do not breathe gas.
Avoid any direct contact with the product.
Do NOT approach from DOWNWIND.
Do NOT attempt to take action WITHOUT suitable protective equipment.
Self-contained breathing apparatus.
Wear fully protective suit.
Keep people at a distance and stay upwind.
Mark out the contaminated area with signs and prevent access to unauthorized personnel.
Environmental precautions:
Contain the spilled material by binding.
Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:
Pump up the product into a spare container suitably labelled.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Wash contaminated area with large amounts of water.
Recover the cleaning water for subsequent disposal.
Dispose contaminated material as waste according to item 13.
Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and
to state and/or local agencies.
 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

 • Precautions for safe handling Ensure good ventilation/aspiration at the workplace. Avoid contact with water or humidity. Avoid any direct contact with the product. Any measure to eliminate exposure should be considered. Very high level of containment required, except for short term exposures e.g. taking sar (industrial use condition). Comply with instructions for use (refer to technical sheet). 	nples
 Conditions for safe storage, including any incompatibilities Storage: The floor of the depot should be impermeable and designed to form a water-tight basin. Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area. Store away from incompatible materials. Requirements to be met by storerooms and receptacles: 	
Suitable material for receptacle and pipe: epoxy-coated steel. Unsuitable material for receptacle: Polystyrene.	

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Store only in unopened original receptacles. - Metallic drums.

- Storage tank with a dry nitrogen blanket.

Packaging materials recommended : Aluminium.

Alumin Steel.

Unsuitable material for receptacle: Copper.

Unsuitable material for receptacle: Coppe

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace: The recommended limits SHOULD NOT be exceeded. Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Ensure good ventilation of the work station. Safety shower. Eye wash. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Shower or take a bath at the end of work. Breathing equipment: When using a spray-gun, wear: Self-contained breathing apparatus. In the event of insufficient ventilation: Self-contained breathing apparatus. When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/ or industrial recommendations. · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves

Suitable materials also with prolonged, direct contact (protective index 6, corresponding > 480 minutes of permeation time):

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Eye protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.



Safety glasses

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties		
Appearance:			
Form:	Liquid		
Color:	Colourless to pale yellow.		
Odor:	Odorless		
pH-value:	Not applicable (reacts with water).		
Change in condition			
Melting point/Melting range:	< - 20 ℃		
Boiling point/Boiling range:	>220 ℃ (>428 °F) (at 1.33hPa)		
	> 203 C (397 F) at 1 mmHg		
· Flash point:	137 ℃ (279 ℉) (EN 22719)		
	Flammability Class: WILL BURN		
Ignition temperature:	460 °C (860 °F) (Spontaneous ignition temp)		
Danger of explosion:	Not explosive.		
Explosion limits:			
Oxidizing properties	Not oxidizing.		
· Density at 25 °C (77 °F):	1.16 g/cm ³ (9.68 lbs/gal)		
Solubility in / Miscibility with			
Water:	Reacts.		
Ketones:	Soluble		
aromatic hydrocarbons:	Soluble		
esters :	Soluble		
Segregation coefficient (n-octanol/	water): Not applicable (reacts with water and/or octanol)		
· Viscosity:			
Dynamic at 25 °C (77 °F):	1200 mPas		

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· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: Stable at ambient temperature.
- Possibility of hazardous reactions
- Reacts with:
- alcohols.
- amines.
- bases.
- protic solvents.
- water and aqueous solutions.

with a great release of CO2, and hence a risk of a pressure build-up in confined areas and forms an insoluble solid precipitate.

Reacts with strong acids Reacts with strong oxidizing agents

Conditions to avoid extreme heat open flame moisture

ignition sources

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

On thermal decomposition (pyrolysis) releases: Toxic gases. Carbon dioxide

Nitrogen oxides

Oxides of carbon

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values:

Harmful by inhalation.

To comply with regulatory guidelines, the substance was tested in a form (i.e. specific particle size distribution) that is different from the form in which the substance is placed on the market and in which it can reasonably be expected to be used. The acute inhalation toxicity of the substance is due to its local action on the distal part of the respiratory tract. As, in the conditions in which the product can reasonably be expected to be used, only a small fraction of the aerosols formed may reach this part of the respiratory tract, a correction has been made to take this difference into consideration. Based on our Expert judgment, the classification Acute inhalation toxicity category 4 is justified.

Not harmful by skin contact. Not harmful if swallowed.

Hexameth	nylene dii	socyanate oligomers, Isocyanurate
Oral	LD0	> 2500 mg/kg (rat) (OECD 423 (female))
Dermal	LD0	> 2000 mg/kg (rabbit) (OECD 402)
		> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4h	0.390 mg/l (rat) (OECD 403 (female))
hexameth	ylene-di-	isocyanate
Oral	LD50	746 mg/kg (rat) (OECD 401)
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Dermal		g (rat) (OECD 402)	
	LC50/4h 0.124 mg/l (r	rat) (OECD 403)	
 on the sk Not classif (OECD 40 (rabbit) on the ey Not classif (OECD 40 (rabbit) Inhalatior 	ied as irritating to skin. 4) e: ied as irritating to eyes 5)		
28182-81-	2 Hexamethylene diis	ocyanate oligomers, Isocyanurate	
Inhalative	NOAEC/6h 3 mg/m ³ (r	rat) ((OECD TG 403) (TRGS))	
· Additiona	I toxicological information	ation:	
	enic categories		
· OSHA-Ca	(Occupational Safety	& Health Administration)	
Not listed.			
May cause • Carcinog	e allergy or asthma sym e sensitisation by skin c		
	nexamethylene-di-isoo		
	NOAEC Carc 0.164 pr		
 Mutageni Reproduce 	city: Is not considered (tive toxicity: sidered hazardous to th	genotoxic.	
822-06-0	nexamethylene-di-isoo	cyanate	
	NOAEC Dvlp/Tera Tox	(0.3 ppm (rat) (OECD 414)	
Inhalative		0.005 npm (rot) (OECD 414)	
Inhalative	NOAEC Maternal Tox	(0 = 0.005 ppm (1at) (0 = 0.0414)	

Toxicity Aquatic toxicity:	
	have any known adverse effects on the aquatic organisms tested.
28182-81-2 Hexamet	hylene diisocyanate oligomers, Isocyanurate
EC10/72h (static)	370 mg/l (Desmodesmus subspicatus) (EU C.3)
EL50/48h (static)	127 mg/l (Daphnia magna) (EU C.2)
ErC50(0-72h) (static)	> 1000 mg/l (Desmodesmus subspicatus) (EU C.3)
LL0/96h	\geq 82.8 mg/l (Brachydanio rerio) (EU C.1)
822-06-0 hexamethy	lene-di-isocyanate
EC0/48h (static)	\geq 89.1 mg/l (Daphnia magna) (EU C.2)
ErC50(0-72h) (static)	> 77.4 mg/l (Desmodesmus subspicatus) (EU C.3)
LC0/96h (static)	\geq 82.8 mg/l (Brachydanio rerio) (EU C.1)
NOEC/72h (static)	11.7 mg/l (Desmodesmus subspicatus) (EU C.3)

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	ence and degradability	
•	duct is not readily biodegradable.	
	1-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
	1 % (bacteria) ((EU C.4-E) (Unpublished report))	
DT50	3 h (Photolysis) ((25 °C) (AOPWIN v1.92) (Internal evaluation))	
	7.7 h (Hydrolysis) ((23 ℃) (ASTM D4666) (Internal evaluation))	
	0 hexamethylene-di-isocyanate	
	42 % (bacteria) (EU C.4-D)	
DT50	25 °C, 48.44 h (Photolysis) (AOPWIN v1.92)	
	23 °C, 0.23 h (Hydrolysis) (ASTM D4666)	
	or in environmental systems:	
	nents: No information available.	
	umulative potential entially bioaccumulable.	
	v, see section 9.	
-	1-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
	2 (fish) (BCFWIN v. 2.17)	
	0 hexamethylene-di-isocyanate	
	B (fish) (BCFWIN v.2.17)	
· Mobility	/ in soil	
28182-8	1-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
Log Koo	2 7.8 (.) (PCKOC v1.66)	
822-06-	o hexamethylene-di-isocyanate	
Log Koo	: 5861 (.) (PCKOC v1.66)	
	iformation: Formation of insoluble polyurea and/or amine derivative.	
	or in sewage processing plants:	
	1-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
	n (static) 3828 mg/l (activated sludge) (OECD 209)	
	0 hexamethylene-di-isocyanate	
	n (static) 842 mg/l (bacteria) (OECD 209)	
	of PBT and vPvB assessment	
· vPvB:	-	
	dverse effects No further relevant information available.	
A D'	sal considerations	

Recommendation: Discharging waste into rivers and drains is forbidden. Incinerate at a licensed installation. Disposal must be made according to federal, state and local regulations.

· Waste disposal key: EPA Hazardous Waste - NO

· Uncleaned packagings:

Contaminated packaging materials must be disposed of in the same manner as the product.

Recommendation:

Allow it to drain thoroughly.

Thoroughly emptied and clean packagings may be recycled.

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Disposal must be made according to official regulations.

4 Transport information	
· UN Number · DOT, ADR, ADN, IMDG, IATA	NOT regulated.
 Proper shipping name (Technical Name) DOT, ADR, ADN, IMDG, IATA 	NOT regulated.
· Transport hazard class(es)	
· DOT, ADN · Class	-
· ADR, IMDG, IATA · Class	- Not regulated.
 Packing group DOT, ADR, IMDG, IATA 	-
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code 	of Not applicable.
· Transport/Additional information:	The above regulatory prescriptions are those valid of the date of publication of this sheet. However, given the possible evolution of transpor- regulations for hazardous materials and in the eve of the SDS in your possession dating back more that 12 months, it is advisable to check their validity wi your sales office.

15 Regulatory information

- National legislation
- · Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara Section 312
 Fire Hazard - NO
 Reactive Hazard - YES
 Release of Pressure - NO
 Acute Health Hazard - YES
 Chronic Health Hazard - YES

· Section 355 (extremely hazardous substances):

- None of the ingredient is listed.
- · Section 313 (Specific toxic chemical listings):
- CERCLA RQ 100 lbs for 822-06-0
- 822-06-0 hexamethylene-di-isocyanate
- · Carcinogenic categories
- · EPA (Environmental Protection Agency)
- Not listed.

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IARC (International Agency for Research on Cancer) Not listed.	
NTP (National Toxicology Program)	
Not listed.	
Inventory status:	
Australian Inventory of Chemical Substances (AICS)	
All ingredients are listed.	
Canadian Domestic Substance List (DSL)	
All ingredients are listed.	
Canadian Non Domestic Substance List (NDSL)	
Not listed.	
Chinese Chemical Inventory of Existing Chemical Substances (CIECS)	
All ingredients are listed.	
European EINECS/ELINCS Listing	
All ingredients are listed.	
Japan Existing and New chemical Substance List (ENCS)	
All ingredients are listed.	
Korea Existing Chemical Inventory (KECI)	
All ingredients are listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	
All ingredients are listed.	
TSCA listing	
All ingredients are listed.	
Other regulations, limitations and prohibitive regulations State of California, Proposition 65:	
Chemicals known to cause cancer:	
Not listed.	
Chemicals known to cause reproductive toxicity for females:	
Not listed.	
Chemicals known to cause reproductive toxicity for males:	
Not listed.	
Chemicals known to cause developmental toxicity:	
Not listed.	

16 Other information

- Department issuing SDS: Classic Coatings Systems
- · Date of preparation / last revision: 01/06/18 REVISION: 07/18/18

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