

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ACM7012_50 SHIELDIT INNOVATIONS Ceramic MAX, 50 ml

Creation date	01st January 2020	Version	4.0
Revision date	01st October 2021		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier** ACM7012_50 SHIELDIT INNOVATIONS Ceramic MAX, 50 ml
Substance / mixture Coating
Other mixture names
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Protective coating for exterior vehicle surfaces.
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name Shieldit Innovations LLC
Address 16192 Coastal Highway
LEWES, Delaware 19958
United States
Phone +1 (540) 480-0505
E-mail support@shielditinnovations.com
Competent person responsible for the safety data sheet
Name Shieldit Innovations
E-mail support@shielditinnovations.com
- 1.4. Emergency telephone number**
Emergency Telephone of Company/Undertaking +1 (540) 480-0505 (08:00am – 4:00pm)
Counselling centre for poisoning +1 (800) 222-1222
(American Association for Poison Controls Centres)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories

Flammable liquid	: Flam. Liq 2
Acute toxicity	: Acute Tox. 4
Skin corrosion/irritation	: Skin Corr. 1B
Serious eye damage/eye irritation	: Eye Dam. 1
Respiratory or skin sensitization	: Skin Sens.1
Specific target organ toxicity – single exposure	: STOT SE 3
Hazardous to the aquatic environment	: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

n-butyl acetate
organic polysiloxane compound
3-aminopropyltriethoxysilane

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Signal word

Danger

Pictograms:



Hazard statements

H225	Highly flammable liquid vapour.
H302	Harmful if swallowed.
H314	Causes severe burns and eye damage.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Labelling of packages where the contents do not exceed 125 ml

Signal Word Danger

Pictograms:



Hazard statements

H314	Causes severe burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Chemical characterization

Polysilazane in organic solvent (halogen-free)

Hazardous components

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29	n-butyl acetate	40% - <60%	Flam. Liq- 3, H226 STOT SE 3, H336 EUH066	/
CAS: 475645-84-2 EC: - Index: - REACH: -	Organic polysiloxane compound	30% - <50%	Flam. Liq. 2; H225 Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412	/
CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH: -	3-aminopropyltriethoxysilane	5% - <10%	Acute Tox. 4, H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	/

Full text of H and EUH statements:

see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider

Pay attention to self-protection! Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show direction for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. Call a physician immediately. No direct artificial respiration to be given by first aider.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Check for and remove any contact lenses.

After ingestion

Rinse mouth. Do NOT induce vomiting. Aspiration hazard. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms:

Irritation, Headache, Cough.

Narcotic effects.

Has degreasing effect on skin.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use Foam, Carbon dioxide (CO₂) to extinguish. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Never use water.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose according to legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe gas/fumes/vapour/spray. Do not get in eyes or on skin or clothing. Wear suitable protective clothing, gloves and eye/face protection. Provide adequate ventilation as well as local exhaust at critical locations.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Open containers in periodic time intervals to relieve pressure, which may have been generated (ammonia).

Hints on joint storage

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Protect from sunlight. Do not store at temperatures above 25 °C.

7.3. Specific end use(s)

Coating.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8h)	WEL
		200	966		STEL (15min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
123-86-4	n-butyl acetate			
	Worker DNEL, acute	inhalation		960 mg/m ³
	Worker DNEL, long term	inhalation		480 mg/m ³
	Consumer DNEL, acute	inhalation		859,7 mg/m ³
	Consumer DNEL, long-term	inhalation		102,34 mg/m ³

PNEC values

CAS No	Substance	Value
	Environmental compartment	
123-86-4	n-butyl acetate	
	Freshwater	0,18 mg/l
	Marine water	0,018 mg/l
	Freshwater sediment	0,981 mg/kg
	Marine sediment	0,0981 mg/kg
	Soil	0,0903 mg/kg

Additional advice on limit values

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept.

8.2. Exposure controls



Appropriate engineering control

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures

Protect skin by using skin protective cream. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Breakthrough time (maximum wearing time): >10min

Thickness of the glove material: >0,5mm

By short-term hand contact: solvent resistant protective gloves (Butyl caoutchouc (butyl rubber))

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the

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specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing antistatic, flame retardant
Protective clothing, Category 3, Type 3 Liquid-tight Protective clothing, Category 3, Type 4
Spray-tight

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device (EN 14387) A2 B2 E2 K2 Hg/P3, DIN EN371/372

Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	Colourless.
Odour	Ammonia
pH-Value	Not applicable

Change in the physical state

Initial boiling point and boiling range	125°C (Solvent)
Flash point	16°C

Flammability

Solid	Not determined
Gas	Not determined

Lower explosion limits	Not determined
Upper explosion limits	Not determined
Ignition temperature	Not determined

Auto-ignition temperature

Solid	Not determined
Gas	Not determined

Decomposition temperature	Not determined
Vapour pressure	Not determined
Density	0,92 g/cm ³
Water solubility	Reacts with water

Solubility in other solvents

Partition coefficient	Not determined
Vapour density	Not determined
Evaporation rate	Not determined

9.2. Other information

Solid content	not determined
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SECTION 10: Stability and reactivity

10.1. Reactivity

The product hydrolyses quickly in the presence of water to: Hydrogen, Ammonia (NH₃), siloxanes.

10.2. Chemical stability

The product hydrolyses quickly in the presence of water to: Hydrogen, Ammonia (NH₃), siloxanes.

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

10.3. Possibility of hazardous reactions

Reacts vigorously with water, including moisture in the air.

Reacts with : Alcohol, Amines; Decomposition under formation of: Ammonia.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Oxidising agent, Base, Acid, halogenated constituents.

10.6. Hazardous decomposition products

Hydrogen, Ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

The product has not been tested.

Acute toxicity

The product has not been tested.

ATEmix calculated

ATE (oral) 1333,3 mg/kg

CAS No	Chemical name		Exposure route	Dose	Species	Source	Method
123-86-4	n-butyl acetate		oral	LD50	Scenedesmus subspicatus	GESTIS	OECD 403
				>10000 mg/kg			
			dermal	LD50	Rabbit		
				>17600 mg/kg			
475645-84-2	Organic polysiloxane compound		inhalation (4h) vapour	LC50	Rat	RTECS	OECD 405
				21,1 mg/l			
			oral	LD50	Rat		
				1780 mg/kg			
			dermal	LD50	Rabbit		
				3800 mg/lg			
			inhalation (4h) vapour	LC50			
				>5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation:

OECD 404, Rabbit:

n-butyl acetate: negative.

organic polysiloxane compound: Causes chemical burns.

Serious eye damage/eye irritation: (n-butyl acetate) OECD 405, Rabbit: negative.

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Sensitising effects

n-butyl acetate:

Respiratory or skin sensitisation: Regulation (EC) No. 440/2008, Annex, B.6 (Maximisation test), Guinea pig: negative.

Carcinogenic/mutagenic/toxic effects for reproduction

organic polysiloxane compound:

Germ cell mutagenicity, In vitro mutagenicity/genotoxicity:

OECD 471 (Ames test): negative. (Escherichia coli.)

STOT-single exposure

May cause drowsiness or dizziness. (n-butyl acetate)

Practical experience

Other observations

n-butyl acetate:

Further information: Has degreasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	96h	Pimephales promelas (fathead minnow)		
		18 mg/l				
	Acute algae toxicity	ErC50	72h	Scenedesmus subspicatus		
		675 mg/l				
	Acute crustacea toxicity	EC50	48h	Ceriodaphnia spec		
		44 mg/l				
	Acute bacteria toxicity	356 mg/l		Activated sludge		
475645-84-2	organic polysiloxane compound					
	Acute fish toxicity	LC50	96h	Brachydanio rerio (zebra-fish)		
		57,1 mg/l				
919-30-2	3-aminopropyltriethoxysilane					
	Acute fish toxicity	LC50	96h	Brachydanio rerio (zebra-fish)		OECD 203
		934 mg/l				
	Acute algae toxicity	ErC50	72h	Desmodesmus subspicatus		
		603 mg/l				
	Acute crustacea toxicity	EC50	48h	Daphnia magna		OECD 202
		331 mg/l				

12.2. Persistence and degradability

The product has not been tested.

n-butyl acetate: Readily biodegradable (according to OECD criteria).

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
919-30-2	3-aminopropyltriethoxysilane	Aerobic biological treatment	67%	28	
		Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

n-butyl acetate: Does not accumulate in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	1,78
919-30-2	3-aminopropyltriethoxysilane	0,31

BCF

CAS No	Chemical name	BCF	Species	Source
919-30-2	3-aminopropyltriethoxysilane	3,4	Cyprinus carpio (Common Carp)	

12.4. Mobility in soil

This product has not been tested.

12.5. Results of PBT and vPvB assessment

n-butyl acetate: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not mix with aqueous wastes or wastes containing protic substances. Disposal in conformity with the standards of a suitable and authorized waste disposal site. Optionally keep consultation with the disposal or the competent authority. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.





SECTION 14: Transport information

ADR/RID	IMDG	IATA	ADN
14.1. UN number or ID number			
UN 2924	UN 2924	UN 2924	UN 2924
14.2. UN proper shipping name			
FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysiloxane compound, n-butyl acetate)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysiloxane compound, n-butyl acetate)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysiloxane compound, n-butyl acetate)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysiloxane compound, n-butyl acetate)
14.3. Transport hazard class(es)			

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3	3	3	3
 <p>Classification Code: FC Special Provisions: 274 Limited quantity: 1 L Expected quantity: E2 Transport category: 2 Hazard Number: 338 Tunnel restriction code: D/E</p>	 <p>Special Provisions: 274 Limited quantity: 1 L Expected quantity: E2 EmS: F-E, S-C</p>	 <p>Special Provisions: A3 Limited quantity Passenger: 0.5 L Expected quantity: E2 IATA-packing instructions – Passenger: 1 L IATA-max. quantity – Passenger: 352 IATA-packing instructions – Cargo: 363 IATA-max. quantity – Cargo: 5 L</p>	 <p>Classification Code: FC Special Provisions: 274 Limited quantity: 1 L Expected quantity: E2</p>
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
NO	NO	NO	NO

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: n-butyl acetate; 3-aminopropyltriethoxysilane

National regulatory information

Water contaminating class (D):

2 – clearly water contaminating

15.2. Chemical safety assessment

Chemical Safety Assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
CAS#	Chemical Abstracts Service number
EC	European Community
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
GHS	Globally Harmonized System
IATA	International Air Transport Association
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification

Flam. Liq. 2; H225
Acute Tox. 4; H302
Skin Corr. 1B; H314
Eye Dam. 1; H318

Classification procedure

On basis of test data
Calculation method
Calculation method
Calculation method

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Skin Sens. 1; H317

Calculation method

STOT SE 3; H336

Calculation method

Aquatic Chronic 3; H412

Calculation method

Relevant H and EUH statement (number and full text)

H225

Highly flammable liquid and vapour.

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

H304

May be fatal if swallowed and enters airways.

H314

Causes severe skin burns and eye damage.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H361d

Suspected of damaging the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

EUH066

Repeated exposure may cause skin dryness or cracking.

Further information

Observe in addition any national regulations!

Statement

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.