

Safety Data Sheet MAC SHIELD COMP. A

Revision Date: 01/02/2023



1. Identification

1.1. Product identifier

Product Identity MACSHEILD COMP. A

Alternate Names Polyaspartic Part A
Aspartic Ester

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Mac Coatings
1106 WALKER ROAD
WINDSOR, ONTARIO
N8Y 2N7

Customer Service: Mac Coatings (519)-252-7275

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226	Flammable liquid and vapor.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction
STOT SE 3;H335	May cause respiratory irritation.
STOT SE 3;H336	May cause drowsiness or dizziness.
Repr. 2; H361	Suspected of damaging fertility or the unborn child
Asp. Hazard 1;H304	May be fatal if swallowed and enters airways

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

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Danger

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye irritation.

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

H361 Suspected of damaging fertility or the unborn child

H304 May be fatal if swallowed and enters airways.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+310 If Swallowed: Immediately call a poison center or doctor.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see information on this label).

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice / attention.

P333+P313 If skin irritation or rash occurs, get medical advice/attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 IN CASE OF FIRE: Use dry sand, dry chemical or alcohol resistant foam for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

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

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Aspartic Ester CAS Number: 0136210-30-5	40-50	Skin Sens. 1;H317	[1]
Butyl Acetate CAS Number: 0000123-86-4	12-15	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Aliphatic carboxylic Ester CAS Number: 0000623-91-6	1 - 4	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Ethyl Benzene CAS Number: 0000100-41-4	<0.1	Eye Irrit. 2B;H320 Carcinogenicity 2;H351 Repr. 2;H361 Specific organ Tox. 1;H372	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

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[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Get medical attention if irritation develops.
Ingestion	DO NOT INDUCE VOMITING. Give water for dilution. If spontaneous vomiting is inevitable, CONTACT A PHYSICIAN IMMEDIATELY.

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

Overview	May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash, May cause eye irritation with symptoms of reddening itching and swelling, may cause respiratory irritation with symptoms of coughing, sore throat, and runny nose. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.
Inhalation	May cause drowsiness or dizziness. May cause respiratory irritation.
Eyes	May cause eye irritation.
Skin	May cause skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Dry chemical, Foam, Water fog, Carbon Dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Burning may produce irritating Or toxic fumes. Nitrogen oxides(NOx),amines, Carbon dioxide, carbon monoxide, various hydrocarbons, etc. Ammonia gas may be liberated at high temperatures.

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

Keep cool.

Ground / bond container and receiving equipment.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus with a full facepiece

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near container (even empty) because product (even just residue) can ignite explosively. All five gallon pails and large metal containers should be grounded and/or bonded when material is transferred.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Steps to be taken in case material is released or spilled: Eliminate all ignition sources (flares, flames including pilot Lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed, stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay earth, floor, absorbent, or other absorbent material and shoveled into containers.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

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Handle containers carefully to prevent damage and spillage.

Incompatible materials: Avoid contact with: strong oxidizing agents, Strong alkalis, strong mineral acids, Isocyanates.

May absorb small amounts of atmospheric moisture. Do not reseal container if contamination is suspected.

Store between temperatures of 0-30°C(32-86°F)

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0136210-30-5	Aspartic Ester	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000123-86-4	Butyl Acetate	OSHA	No Established Limit
		ACGIH	TWA: 150 ppm STEL: 200 ppm Skin
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000623-91-6	Aliphatic carboxylic Ester	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000100-41-4	Ethyl Benzene(HAP)	OSHA	TWA 100 ppm
		ACGIH	TLV-TWA 100 ppm, TLV-STEL 125 ppm
		NIOSH	TWA 100 ppm
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Chemical splash goggles are advised. (consult your safety equipment supplier).

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- Skin** Wear resistant gloves such as 4H laminate, butyl rubber, nitrile rubber or Viton. Other protective equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Liquid
Odor	Solvent like
Odor threshold	Not determined
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	Not Measured
Evaporation rate (Ether = 1)	(X) Slower Than N-BUTYL ACETATE
Flammability (solid, gas)	Not Measured
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	(X)Heavier Than Air ()Lighter than Air
Specific Gravity	1.572
Solubility in Water	Not Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

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10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid extreme heat.

10.5. Incompatible materials

Avoid contact with: strong oxidizing agents, Strong alkalis, strong mineral acids, and Isocyanates.

10.6. Hazardous decomposition products

Burning may produce irritating Or toxic fumes. Nitrogen oxides(NOx), Amines, Carbon dioxide and carbon monoxide, various hydrocarbons, etc. Ammonia gas may be liberated at high temperatures.

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Aspartic Ester - (136210-30-5)	>2,000, Rat - Category: NA	>2,000, Rat - Category: NA	>4.22, Rat - Category: NA	No data available	No data available

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Butyl Acetate-(123-86-4)	10,750.00, Rat - Category: 4	14,112.00, Rabbit - Category: NA	>21, Rat - Category: NA	No data	No data
Aliphatic carboxylic Ester - (623-91-6)	>2,000, Rat - Category: NA	>2,000, Rat - Category: NA	>4.22, Rat - Category: NA	No data available	No data available
Ethyl Benzene – (100-41-4)	3500, Rat - Category: 5	17 000 Rabbit - Category: 5	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
0136210-32-7	Aspartic Ester	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000123-86-4	Butyl Acetate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000623-91-6	Aliphatic carboxylic Ester	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000100-41-4	Ethyl Benzene	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	May cause serious eye damage/irritation.
Serious eye damage/irritation	2A	May cause serious eye damage/irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	2	Suspected of damaging fertility or the unborn child.
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-single exposure	3	May cause respiratory irritation.

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STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Aliphatic carboxylic Ester - (623-91-6)	Not Available	Not Available	Not Available
Butyl Acetate-(123-86-4)	18.00, Pimephales promelas	44.00,Daphnia magna	Not Available
Aspartic Ester - (0136210-30-5)	Not Available	Not Available	Not Available
Ethyl Benzene (0000100-41-4)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

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14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Non-Regulated	Non-Regulated	Non-Regulated
14.2. UN proper shipping name	Non-Regulated	Non-Regulated	Non-Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: NA	IMDG: NA Sub Class: NA	Air Class: NA
14.4. Packing group	NA	NA	NA
14.5. Environmental hazards			
IMDG	No further information		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Butyl Acetate)
Xylene

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

2-butoxyethanol
Xylene

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Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Butyl Acetate

Pennsylvania RTK Substances (>1%):

Butyl Acetate

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The information contained herein is furnished without warranty of any kind. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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