



Safety Data Sheet

Prepared in Accordance with HCS 29
C.F.R. 1910.1200

1. Identification of the Substance/Mixture and the Company/Undertaking

- | | | | |
|--|--|-------------------------|------------|
| 1.1 Product Identifier | 121PB1NL | Revision Date: | 12/05/2022 |
| Product Name: | PLASITE 4301 HT PART B | Supersedes Date: | 02/09/2021 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | Component of multicomponent industrial coatings - Industrial use. | | |
| 1.3 Details of the supplier of the safety data sheet | | | |
| Manufacturer: | Carboline Global Inc. 2150 Schuetz Road St. Louis, MO USA 63146 | | |
| | Regulatory / Technical Information: Contact Carboline Technical Services at 1-800-848-4645 | | |
| Datasheet Produced by: | Schlereth, Ken - regulatory@carboline.com | | |
| 1.4 Emergency telephone number: | CHEMTREC 1-800-424-9300 (Inside US) CHEMTREC +1 703 5273887 (Outside US) HEALTH - Pittsburgh Poison Control 1-412-681-6669 | | |

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4
Organic Peroxide, categories C, D
Reproductive Toxicity, category 2
Skin Corrosion, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

MEK PEROXIDES, DIISOBUTYRATE, HYDROGEN PEROXIDE

HAZARD STATEMENTS

| | | |
|--|---------|--|
| Organic Peroxide, categories C, D | H242-CD | Heating may cause a fire. |
| Skin Corrosion, category 1 | H314-1 | Causes severe skin burns and eye damage. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| Reproductive Toxicity, category 2 | H361 | Suspected of damaging fertility or the unborn child. |

PRECAUTION PHRASES

| | |
|--------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P234 | Keep only in original container. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284 | Wear respiratory protection. |
| P301+310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301+330+331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P308+313 | IF exposed or concerned: Get medical advice/attention |
| P363 | Wash contaminated clothing before reuse. |
| P403+235 | Store in a well-ventilated place. Keep cool. |

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous ingredients

| <u>Name According to EEC</u> | <u>EINEC No.</u> | <u>CAS-No.</u> | <u>%</u> | <u>Classifications</u> | |
|------------------------------|------------------|----------------|----------|------------------------|--|
| MEK PEROXIDES | 215-661-2 | 1338-23-4 | 25 - <50 | H302-314-332 | Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Skin Corr. 1 |
| DIISOBUTYRATE | 229-934-9 | 6846-50-0 | 10 - <25 | H361-412 | Aquatic Chronic 3, Repr. 2 |

| | | | | | |
|------------------------|------------------------|-----------|------------|--------------------------|---|
| METHYL ETHYL KETONE | 201-159-0 | 78-93-3 | 1.0 - <2.5 | H225-319-336 | Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 NE |
| HYDROGEN PEROXIDE | 231-765-0 231-765-0 | 7722-84-1 | 1.0 - <2.5 | H302-312-314-332-335-412 | |

| <u>CAS-No.</u> | <u>M-Factors</u> |
|----------------|------------------|
| 1338-23-4 | 0 |
| 6846-50-0 | 0 |
| 78-93-3 | 0 |
| 7722-84-1 | 0 |

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. Provide fresh air, rest and warmth. Call a physician immediately.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Consult a physician.

AFTER INGESTION: Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may dry skin and cause irritation. Causes burns. Harmful by inhalation and if swallowed. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.
When symptoms persist or in all cases of doubt seek medical advice.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: SADT- SELF-ACCELERATING DECOMPOSITION TEMPERATURE. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generate a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio of heat transfer area to volume of product.

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire. Halogenated compounds.

5.2 Special hazards arising from the substance or mixture

Flash back possible over considerable distance. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: Fight fire with normal precautions from a reasonable distance.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: Fire will produce dense black smoke containing hazardous

combustion products (see section 10). Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). After cleaning, flush away traces with water.

6.4 Reference to other sections

No Information

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Open drum carefully as content may be under pressure. Protect from contamination. Do not breathe vapours or spray mist. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Avoid shock and friction. Use only in an area containing explosion proof equipment. Use only with adequate ventilation. Do not taste or swallow. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Organic peroxide. Temperature controlled. Hazardous decomposition may occur. Do not re-use empty containers. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Wash thoroughly after handling.

PROTECTION AND HYGIENE MEASURES : Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Maximum storage temperature: 100F (38C) Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store at temperatures not exceeding 25°C. Keep cool. Store in upright position only. Keep away from food, drink and animal feeding stuffs. Keep away from combustibles and flammable materials.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

| Name | CAS-No. | ACGIH TWA | ACGIH STEL | ACGIH Ceiling |
|---------------|-----------|-----------|------------|---------------|
| MEK PEROXIDES | 1338-23-4 | 0.2 PPM | N/E | N/E |

| | | | | |
|---------------------|-----------|---------|---------|-----|
| DIISOBUTYRATE | 6846-50-0 | N/E | N/E | N/E |
| METHYL ETHYL KETONE | 78-93-3 | 200 PPM | 300 PPM | N/E |
| HYDROGEN PEROXIDE | 7722-84-1 | 1 PPM | N/E | N/E |

| <u>Name</u> | <u>CAS-No.</u> | <u>OSHA PEL</u> | <u>OSHA STEL</u> |
|---------------------|----------------|-------------------|------------------|
| MEK PEROXIDES | 1338-23-4 | 0.7 PPM | N/E |
| DIISOBUTYRATE | 6846-50-0 | N/E | N/E |
| METHYL ETHYL KETONE | 78-93-3 | 590 MGM3, 200 PPM | 85 MGM3, 300 PPM |
| HYDROGEN PEROXIDE | 7722-84-1 | 1.4 MGM3, 1 PPM | N/E |

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

EYE PROTECTION: No Information

HAND PROTECTION: Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Appearance: | Colorless To Light Yellow |
| Physical State | Liquid |
| Odor | Irritating |
| Odor threshold | N/D |
| pH | N/D |
| Melting point / freezing point (°C) | N/D |
| Boiling point/range (°C) | Decomposition 154F (68C) - . |
| Flash Point (°C) | 176F (80C) |
| Evaporation rate | Slower Than Ether |
| Flammability (solid, gas) | Not determined |
| Upper/lower flammability or explosive limits | N/D - N/D |
| Vapour Pressure, mmHg | N/D |
| Vapour density | Heavier than Air |
| Relative density | Not determined |
| Solubility in / Miscibility with water | |

| | |
|---|----------------|
| | Limited |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature (°C) | Not determined |
| Decomposition temperature (°C) | Not determined |
| Viscosity | Unknown |
| Explosive properties | Not determined |
| Oxidising properties | Not determined |
| 9.2 Other information | |
| VOC Content g/l: | 27 |
| Specific Gravity (g/cm³) | 1.072 |

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under recommended storage conditions. Self-Accelerating decomposition temperature (SADT): 60°C.

10.3 Possibility of hazardous reactions

No Information

10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials. Reducing agents. Avoid radical-forming starting agents, peroxides and reactive metals.

10.6 Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), water, acetic acid, formic acid, propionic acid, methyl ethyl ketone. SADT- SELF-ACCELERATING DECOMPOSITION TEMPERATURE. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generate a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio of heat transfer area to volume of product.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50: N/D

Inhalation LC50: N/D

Irritation: Unknown

Corrosivity: Skin Corrosion, category 1

Sensitization: Unknown

Repeated dose toxicity: Unknown

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: Reproductive Toxicity, category 2

STOT-single exposure: Unknown

STOT-repeated exposure: Unknown

Aspiration hazard: Unknown

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> | <u>Gas LC50</u> | <u>Dust/Mist LC50</u> |
|----------------|----------------------|--------------------------|--------------------------------|---|-----------------|-----------------------|
| 1338-23-4 | MEK PEROXIDES | 1017 mg/kg, oral, rat | 4000 mg/kg, dermal, rabbit | 17 mg/l / 4h, Inh, mouse | 0.000 | 0.000 |
| 6846-50-0 | DIISOBUTYRATE | 3200 mg/kg, oral, rat | >2000 mg/kg, dermal, rabbit | Not Available | 0.000 | 0.000 |
| 78-93-3 | METHYL ETHYL KETONE | 2194 mg/kg rat, oral | Not Available | 34.5 mg/L/ 4 hour rat, inhalation | 0.000 | 0.000 |
| 7722-84-1 | HYDROGEN PEROXIDE | 805 mg/kg, oral, rat | 2000 mg/kg, (Rabbit) | 2000 mg/m3 inh, rat | 0.000 | 0.000 |

Additional Information:

Corrosive - causes irreversible eye damage. Corrosive to skin.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): Unknown

IC50 72hr (Algae): Unknown

LC50 96hr (fish): Unknown

| | |
|--|--|
| 12.2 Persistence and degradability: | Unknown |
| 12.3 Bioaccumulative potential: | Unknown |
| 12.4 Mobility in soil: | Unknown |
| 12.5 Results of PBT and vPvB assessment: | The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII. |
| 12.6 Other adverse effects: | Unknown |

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|----------------------|------------------------------|------------------|---------------------------------|
| 1338-23-4 | MEK PEROXIDES | 39 mg/l | No information | No information |
| 6846-50-0 | DIISOBUTYRATE | No information | No information | No information |
| 78-93-3 | METHYL ETHYL KETONE | 308 mg/l (Daphnia magna) | No information | 2993 mg/l (Pimephales promelas) |
| 7722-84-1 | HYDROGEN PEROXIDE | 18 - 32 mg/l (Daphnia Magna) | No information | 16.4 mg/L (Pimephales promelas) |

13. Disposal Considerations

- 13.1 **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

14. Transport Information

| | |
|---|--|
| 14.1 UN number | UN 3105 |
| 14.2 UN proper shipping name | Organic Peroxide Type D Liquid |
| Technical name | (Methyl Ethyl Ketone Peroxides, <=45%) |
| 14.3 Transport hazard class(es) | 5.2 |
| Subsidiary shipping hazard | N/A |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | Unknown |
| 14.6 Special precautions for user | Unknown |
| EmS-No.: | F-J, S-R |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Unknown |

15. Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Organic peroxide, Acute Toxicity (any route of exposure), Reproductive toxicity, Skin Corrosion or Irritation

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u> | <u>CAS-No.</u> | <u>%</u> |
|----------------------|----------------|----------|
|----------------------|----------------|----------|

No SARA 313 substances exist in this product above de minimis concentrations.

Toxic Substances Control Act:

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| DIMETHYLPHthalate | 131-11-3 |

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| DIMETHYLPHthalate | 131-11-3 |

CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

International Regulations: As follows -

* Canadian DSL:

No Information

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

Reasons for revision

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.