

Safety Data Sheet

Issue date : 2023-10-12

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 500 Pro Bond Instant Adhesive
Product type/use : Rubber, plastic, bonding or sealing

Nuke Performance AB

Metodvägen 10, 435 33 Mölnlycke, Sweden
www.nukeperformance.com

Manufactured in China : Well Bond Group, +86 755 82355121 www.wellbondgroup.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION, CAUSES SERIOUS EYE IRRITATION. SUSPECTED OF CAUSING CANCER.

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |
| CARCINOGENICITY | 2 |

PICTOGRAM(S)



PRECAUTIONARY STATEMENTS

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash the affected area thoroughly after handling. Contaminated work clothing should not be taken outside the workplace. Wear protective gloves, clothing, eye, and face protection.

Response : If on skin: Wash with a generous amount of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if they are present and easily removable. Continue rinsing. If exposed or concerned: Seek immediate medical attention. In the event of skin irritation or rash: Seek medical attention. Remove contaminated clothing.

Storage : Store locked up.

Disposal : Dispose of the contents and/or container in accordance with applicable Federal, State/Provincial, and local government regulations.

The classification conforms to OSHA Hazard Communication Standard (29 CFR 1910.1200) and aligns with the guidelines of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Components(s) | CAS Number | Percentage* |
|-------------------------|------------|-------------|
| Ethyl 2-cyanoacrylate | 7085-85-0 | 80 - 100 |
| Carbon black | 1333-86-4 | 1 - 5 |
| Phthalic anhydride | 85-44-9 | 0.1 - 1 |
| Hydroquinone | 123-31-9 | 0.1 - 1 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

| | |
|-----------------------------|--|
| Inhalation : | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention. |
| Skin contact : | Never attempt to separate bonded skin by force. Soak the affected area in warm, soapy water. Carefully separate using a blunt instrument. If skin appears to be burnt due to rapid heat generation from a large adhesive bond, seek immediate medical attention. In the case of bonded lips, apply warm water to the lips and encourage moistening and gentle pressure from saliva in the mouth. Gradually separate or roll the lips apart; avoid using direct opposing force. |
| Eye contact : | Immediately rinse the affected area with an ample amount of water for a minimum of 15 minutes. Seek prompt medical attention. In the event of eyelids becoming bonded closed, gently release the eyelashes using warm water by placing a moist pad over them. Do not attempt to force the eye open. Cyanoacrylate may bond to eye proteins and induce a tearing effect, aiding in the adhesive's debonding process. Keep the eye covered until debonding is complete, typically occurring within 1-3 days. If solid particles of polymerized cyanoacrylate become trapped behind the eyelid, potentially causing abrasive damage, it is advisable to seek medical attention. |
| Ingestion : | Ensure that the airways remain unobstructed. This product will polymerize quickly and may adhere to the mouth, making swallowing difficult. Saliva will naturally separate any solidified product within several hours. Take precautions to prevent the patient from swallowing any separated mass. |
| Symptoms : | See section 11. |
| Notes to physician : | Surgery is typically unnecessary to separate bonded tissues. Passive, non-surgical first aid is often the most effective approach. If rapid curing causes thermal burns, treat them symptomatically after adhesive removal. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Extinguishing media : | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures : | Wear a self-contained breathing apparatus with a full-face piece, operated in a pressure-demand or another positive pressure mode. |
| Unusual fire or explosion hazards : | None |
| Hazardous combustion products : | Trace amounts of toxic and/or irritating fumes may be emitted, and the use of a breathing apparatus is advisable. |

6. ACCIDENTAL RELEASE MEASURES

Utilize the personal protective equipment suggested in Section 8, isolate the hazardous area, and restrict access to personnel who are unnecessary and not wearing appropriate protection.

| | |
|------------------------------------|--|
| Environmental precautions : | Ventilate area. Do not allow product to enter sewer or waterways. |
| Clean-up methods : | Do not use cloth for cleaning. Flood with water, scrape cured material off the floor, and dispose of it as non-hazardous waste. Refer to Section 8 for cleanup guidelines. |

7. HANDLING AND STORAGE

Handling : Prevent contact with eyes, skin, and clothing. Avoid inhaling vapor and mist. After handling, thoroughly wash. Keep away from fabric or paper materials, as contact can lead to rapid polymerization, releasing smoke, irritating vapors, and causing thermal burns.

Storage : For safe storage, keep within the temperature range of 2°C (35.6°F) to 8°C (46.4°F). Store in a cool, well-ventilated area, away from heat, sparks, and open flames. Keep the container tightly closed until needed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers must assess all workplaces to determine the necessity and appropriate selection of exposure controls and protective equipment for each task.

| Hazardous Component(s) | ACGIH TLV | OSHA PEL | OTHER |
|------------------------|--|----------|-------|
| Ethyl 2-cyanoacrylate | 1 ppm STEL 0.2 ppm TWA (Respiratory sensitization) (Dermal sensitization) | None | None |
| Carbon black | 3 mg/m ³ TWA Inhalable fraction | None | None |
| Phthalic anhydride | 0.005 mg/m ³ STEL Inhalable fraction and vapor. 0.002 mg/m ³ TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor. (Respiratory sensitization) (Dermal sensitization) | None | None |
| Hydroquinone | 1 mg/m ³ TWA (Dermal sensitization) | None | None |

Engineering controls : Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection : Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

Eye / face protection : Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection : Use nitrile gloves and aprons as required to prevent contact. Avoid PVC, nylon, or cotton materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical state | Liquid |
| Color | Black |
| Odor | Sharp, Irritating |
| Odor threshold | 1 - 2 ppm |
| pH | Not applicable |
| Vapor pressure | < 0.5 mm hg (25 °C (77°F)) |
| Boiling point/range | > 149 °C (> 300.2 °F) |
| Melting point/ range | Not determined |
| Specific gravity | 1.1 at 20 °C (68°F) |
| Vapor density | 3 Approximately |
| Flash point | 80 - 93 °C (176°F - 199.4 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower | Not determined |
| Flammable/Explosive limits - upper | Not determined |
| Autoignition temperature | 485 °C (905°F) |
| Flammability | Not applicable |
| Evaporation rate | Not available |
| Solubility in water | Polymerises in presence of water. |
| Partition coefficient (n-octanol/water) | Not determined |
| VOC content | < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated) |
| Viscosity | Not available |
| Decomposition temperature | Not available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability : | Stable under recommended storage conditions. |
| Hazardous reactions : | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| Hazardous decomposition products : | None |
| Incompatible materials : | Water, amines, alkalis, and alcohols. |
| Reactivity : | Not available. |
| Conditions to avoid : | Spontaneous polymerization. |

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure : Skin, Inhalation, Eyes.

POTENTIAL HEALTH EFFECTS/SYMPTOMS

| | |
|-----------------------|---|
| Inhalation : | May induce irritation in the respiratory tract. Exposure to vapors exceeding the established exposure limit may result in respiratory irritation, potentially causing breathing difficulties and chest tightness. |
| Skin contact : | Bonds skin rapidly. Potential for skin irritation. Although cyanoacrylates have been known to induce allergic reactions, their rapid polymerization at the skin surface makes such responses rare. Cyanoacrylates generate heat during solidification, and in rare cases, a sizable drop can cause skin burns. Cured adhesive, even when bonded to the skin, does not pose a health hazard. |
| Eye contact : | Irritant to the eyes, leading to excessive tearing. Possible bonding of eyelids. |
| Ingestion : | Not anticipated to be harmful when ingested. Rapid polymerization (solidification) occurs in the mouth, making it almost impossible to swallow. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|--|---|
| Ethyl 2-cyanoacrylate | None | Irritant, Allergen, Respiratory |
| Carbon black | Oral LD50 (Rat) = > 8,000 mg/kg | Respiratory, Some evidence of carcinogenicity |
| Phthalic anhydride | Oral LD50 (Rat) = 800 mg/kg Oral LD50 (Mouse) = 1,500 mg/kg Oral LD50 (Rat) = 1,530 mg/kg Oral LD50 (Rat) = 4,020 mg/kg Oral LD50 (Rabbit) = > 1,000 mg/kg Dermal LD50 (Rabbit) = > 3,160 mg/kg | Allergen, Corrosive, Irritant, Respiratory |
| Hydroquinone | Oral LD50 (Rat) = 320 mg/kg Oral LD50 (Mouse) = 245 mg/kg Oral LD50 (Rabbit) = 540 mg/kg Dermal LD50 (Rat) = > 900 mg/kg | Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Immune system, Irritant, Liver, Mutagen, Skin, Thyroid |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Ethyl 2-cyanoacrylate | No | No | No |
| Carbon black | No | Group 2B | No |
| Phthalic anhydride | No | No | No |
| Hydroquinone | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information : Not known.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal : Follow all local, state, federal, and provincial regulations for disposal.

Hazardous waste number : Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transportation details outlined in this section are applicable solely to the material/formulation itself and do not pertain to any particular packaging or configuration.

Transportation of Dangerous Goods – Ground :

| | |
|--------------------------|---------------|
| Proper shipping name | Not regulated |
| Hazard class or division | None |
| Identification number | None |
| Packing group | None |

International Air Transportation (ICAO/IATA).

15. REGULATORY INFORMATION

United States Regulatory Information :

| | |
|---------------------------------|--|
| TSCA 8 (b) Inventory Status | All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory. |
| TSCA 12 (b) Export Notification | None above reporting de minimis. |
| CERCLA/SARA Section 302 EHS | None above reporting de minimis. |
| CERCLA/SARA Section 311/312 | Immediate Health, Delayed Health, Fire, Reactive. |
| CERCLA/SARA Section 313 | None above reporting de minimis. |
| CERCLA Reportable quantity | Hydroquinone (CAS# 123-31-9) 100 lbs. (45.4 kg) |
| California Proposition 65 | This product contains a chemical known in the State of California to cause cancer. |

Regulatory Information :

| | |
|----------------------|---|
| CEPA DSL/NDSL Status | All components are listed on or are exempt from listing on the Canadian Domestic Substances List. |
|----------------------|---|

16. OTHER INFORMATION

History of changes : This safety data sheet contains no changes in any of its sections, this is its first version.

Prepared by: Product Safety and Regulatory Affairs, WELL BOND GROUP, CHINA

Disclaimer of liability : The information in this SDS is believed to be reliable but is provided without any warranty, express or implied, regarding its accuracy. We disclaim liability for any issues related to the handling, storage, use, or disposal of the product, as these factors may be beyond our control and knowledge. This SDS is intended solely for this product and may not be applicable if the product is used as a component in another product.