

NEMPAL[®] 200 Classic PVC Solvent CementVersion:
26-01Revision Date:
26/06/2026Date of Last Issue:
01/09/2024Date of First Issue:
01/09/2024**SECTION 1: Identification of the hazardous chemical and of the supplier****1.1 Product identifier**

Name : 200 Classic PVC Solvent Cement

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Adhesive

1.4 Supplier details

Company : Bond Alike Sdn. Bhd.
Address : No. 16, Jalan Inovatif 2/3, KIIP@Kuala Langat, 42700 Banting, Selangor, Malaysia.
Phone : +603-5889 1615
Email : info@nempal.com

1.5 Emergency phone number

+603-5889 1615

SECTION 2: Hazards identification**2.1 Classification of the hazardous chemical****Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)**

Flammable liquids, Category 2	H225
Skin corrosion or irritation, Category 2	H315
Serious eye damage or eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373

2.2 Label elements**Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)**

Hazard pictograms (GHS MY)	:	  
Signal word (GHS MY)	:	Danger
Contains	:	Butanone; Ethyl Methyl Ketone; Acetone; Propan-2-One; Propanone; Toluene H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation.
Hazard statements (GHS MY)	:	H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS MY)	:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

2.3 Other hazards that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1 Substances

Not applicable

3.2 Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
Toluene	(CAS-No.) 108-88-3	35 – 45	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Ethyl Methyl Ketone	(CAS-No.) 78-93-3	15 – 25	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Eye Irrit. 2, H319 STOT SE 3, H336
Acetone	(CAS-No.) 67-64-1	15 – 25	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2, H319 STOT SE 3, H336

SECTION 4: First-aid measures

4.1 Description of necessary first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

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| First-aid measures after eye contact | : | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : | Call a poison centre or a doctor if feel unwell. |

4.2 Most important symptoms/effects, acute and delayed

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|-------------------------------------|---|------------------------------------|
| Symptoms/effects | : | May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : | Irritation. |
| Symptoms/effects after eye contact | : | Irritation. |

4.3 Indication of immediate medical attention and special treatment needed, if necessary

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| Other medical advice or treatment | : | Treat symptomatically. |
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SECTION 5: Fire-fighting measures**5.1 Suitable extinguishing media**

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| Suitable extinguishing media | : | Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : | Water Spray |

5.2 Physicochemical hazards arising from the chemical

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| Fire hazard | : | Highly flammable liquid and vapour. |
| Hazardous decomposition products in case of fire | : | Toxic fumes may be released. |

5.3 Special protective equipment and precautions for fire fighters

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| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| EAC code | : | •3YE |

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment, and emergency procedures****6.1.1 For non-emergency personnel**

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| Emergency procedures | : | Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
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6.1.2 For emergency responders

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|----------------------|---|--|
| Protective equipment | : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection" |
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6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls and personal protection

8.1 Control parameters

Acetone; Propan-2-One; Propanone (67-64-1)		
Malaysia - Occupational Exposure Limits		
Local name	:	Aseton # Acetone
PEL TWA (mg/m ³)	:	1187 mg/m ³
PEL TWA (ppm)	:	500 ppm
MEL (mg/m ³)	:	3561 mg/m ³
MEL (ppm)	:	1500 ppm
USA - ACGIH - Occupational Exposure Limits		
Local name	:	Acetone
ACGIH TWA (ppm)	:	250 ppm
ACGIH STEL (ppm)	:	500 ppm
Remark (ACGIH)	:	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	:	ACGIH 2021
USA - ACGIH - Biological Exposure Indices		
Local name	:	ACETONE
Biological Exposure Indices (BEI)	:	25 mg/l Parameter: Acetone Medium: urine - Sampling time: End of shift - Notations:Ns
Regulatory reference	:	ACGIH 2021
Butanone; Ethyl Methyl Ketone (78-93-3)		
Malaysia - Occupational Exposure Limits		

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Local name	:	Metil etil keton (MEK) (2-Butanon) # Methyl ethyl ketone (MEK) (2-Butanone)
PEL TWA (mg/m³)	:	590 mg/m³
PEL TWA (ppm)	:	200 ppm
MEL (mg/m³)	:	1770 mg/m³
MEL (ppm)	:	600 ppm
USA - ACGIH - Occupational Exposure Limits		
Local name	:	Methyl ethyl ketone (MEK)
ACGIH TWA (ppm)	:	200 ppm
ACGIH STEL (ppm)	:	300 ppm
Remark (ACGIH)	:	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Regulatory reference	:	ACGIH 2021
USA - ACGIH - Biological Exposure Indices		
Local name	:	METHYL ETHYL KETONE
Biological Exposure Indices (BEI)	:	2 mg/l Parameter: Methyl ethyl ketone Medium: urine - Sampling time: End of shift -Notations: Ns
Regulatory reference	:	ACGIH 2021

Toluene (108-88-3)		
Malaysia - Occupational Exposure Limits		
Local name	:	Toluena (Toluol) # Toluene (Toluol)
PEL TWA (mg/m³)	:	188 mg/m³
PEL TWA (ppm)	:	50 ppm
MEL (mg/m³)	:	564 mg/m³
MEL (ppm)	:	150 ppm
Remark (MY)	:	(kulit # skin)
USA - ACGIH - Occupational Exposure Limits		
Local name	:	Toluene
ACGIH TWA (ppm)	:	20 ppm
Remark (ACGIH)	:	TLV® Basis: Visual impair; female repro; pregnancy loss. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	:	ACGIH 2021
USA - ACGIH - Biological Exposure Indices		
Local name	:	Toluene
Biological Exposure Indices (BEI)	:	0.3 mg/g creatinine Parameter: o-Cresol (with hydrolysis) - Medium: urine - Samplingtime: End of shift - Notations: B0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift ofworkweek
Regulatory reference	:	ACGIH 2021

Exposure limit values for the other components

No additional information available

8.1.1 Biological monitoring

No additional information available

8.2 Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the workstation.

8.3. Individual protection measures, such as PPE

Hand protection : Protective gloves

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Eye protection	:	Safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):	:	  
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Environmental exposure controls	:	Avoid release to the environment
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SECTION 9: Physical and chemical properties

Physical state	:	Liquid
Appearance	:	No data available
Colour	:	Clear
Odour	:	Characteristic odour
Odour threshold	:	No data available
pH	:	Not applicable
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	> 56° C
Flash point	:	7° C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Explosive limits	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	Not applicable
Relative density	:	≈ 0.89
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Partition coefficient n-octanol/water (Log Kow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	150 – 350 cPs

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport. Highly flammable liquid and vapour.
Chemical stability	:	Stable under normal conditions
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7), avoid contact with hot surfaces, heat, no flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	:	No data available
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acetone; Propan-2-One; Propanone (67-64-1)		
LD50 oral rat	:	≈ 5800 mg/kg
LD50 dermal rabbit	:	> 7400 mg/kg
LC50 Inhalation - Rat	:	≈ 76 mg/l/4h

Butanone; Ethyl Methyl Ketone (78-93-3)		
LD50 oral rat	:	≈ 2193 mg/kg

Toluene		
LD50 oral rat	:	> 5000 mg/kg
LD50 dermal rabbit	:	> 5000 mg/kg
LC50 Inhalation - Rat	:	> 20 mg/l/4h

Skin corrosion/irritation : Causes skin irritation. pH: Not applicable
Serious eye damage/irritation : Causes serious eye irritation
Respiratory sensitization : Not classified
Skin sensitization : No data available
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Suspected of damaging fertility or the unborn child
STOT-single exposure : May cause drowsiness or dizziness.

Acetone; Propan-2-One; Propanone (67-64-1)		
STOT- single exposure	:	May cause drowsiness or dizziness.

Butanone; Ethyl Methyl Ketone (78-93-3)		
STOT- single exposure	:	May cause drowsiness or dizziness.

Toluene		
STOT- single exposure	:	May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Toluene		
STOT- repeated exposure	:	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified.
Viscosity, kinematic : > 40 mm²/s

SECTION 12: Ecological information

12.1 Ecotoxicity

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Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	:	Not classified
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Ozone	:	Not classified
Other adverse effects	:	No additional information available

SECTION 13: Disposal information**13.1 Disposal methods**

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	:	Flammable vapours may accumulate in the container.

SECTION 14: Transportation information

In accordance with IMDG / IATA / UN RTDG.

14.1 UN number

UN-No.(UN RTDG)	:	1133
UN-No. (IMDG)	:	1133
UN-No. (IATA)	:	1133

14.2 UN proper shipping name

Proper Shipping Name (UN RTDG)	:	ADHESIVES (containing flammable liquid)
Proper Shipping Name (IMDG)	:	ADHESIVES (containing flammable liquid)
Proper Shipping Name (IATA)	:	Adhesives (containing flammable liquid)
Transport document description (UN RTDG)	:	UN 1133 ADHESIVES (containing flammable liquid), 3, II
Transport document description (IMDG)	:	UN 1133 ADHESIVES (containing flammable liquid), 3, II
Transport document description	:	UN 1133 Adhesives (containing flammable liquid), 3, II

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(IATA)

14.3 Transport hazard class(es)**UN RTDG**

Transport hazard class(es) (UN RTDG) : 3
Danger Labels (UN RTDG) : 3

**IMDG**

Transport hazard class(es) (IMDG) : 3
Danger Labels (IMDG) : 3

**IATA**

Transport hazard class(es) (IATA) : 3
Danger Labels (IATA) : 3

**14.4 Packing Group, if applicable**

Packing group (UN RTDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5 Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**UN RTDG**

Limited quantities (UN RTDG) : 5L
Excepted quantities (UN RTDG) : E2
Packing instruction (UN RTDG) : P001, IBC02
Special packing provisions (UN RTDG) : PP1

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Portable tank and bulk container special instructions (UN RTDG) : T4
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP8

IMDG

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP8
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : B
Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents.
Miscibility with water depends upon their composition.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

14.7 Special precautions for user

Not applicable

14.8 Hazchem or Emergency Action Code

EAC code : •3YE

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations specific for the hazardous chemical in question

Regulation		Component/ Mixture
EHS Notification and Registration Scheme	Not applicable	200 Classic PVC Solvent Cement
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993		
Environmental Quality (Industrial Effluent) Regulations 2009		
Environmental Quality (Scheduled Wastes) Regulations 2007		
Control of Industrial Major Accident Hazards Regulations 1996		
Prohibition of Use of Substance Order 1999		
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		
Chemical Weapons Convention Act		

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Corrosive and Explosive Substances and Offensive Weapons Act		
Dangerous Drugs Act		
Pesticides Act		
Petroleum (Safety Measures) Act		
Poisons Act 1952		
Poisons (Psychotropic Substances) Regulations 1989		

15.2 International agreements

No additional information available

SECTION 16: Other information

16.1 Full text of H-statements

Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation:dust,mist)	:	Not classified
Acute Tox. Not classified (Oral)	:	Acute toxicity (oral) Not classified
Asp. Haz.	:	Aspiration hazard, Category 1
Repr. 2	:	Reproductive toxicity, Category 2
H225	:	Highly flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H361	:	Suspected of damaging fertility or the unborn child.
H361d	:	Suspected of damaging the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure.

16.2 Abbreviations and acronyms

CAS-No. - Chemical Abstract Service number
 ATE - Acute Toxicity Estimate
 EC50 - Median effective concentration
 EC-No. - European Community number
 IATA - International Air Transport Association
 IMDG - International Maritime Dangerous Goods
 LC50 - Median lethal concentration
 LD50 - Median lethal dose
 LOAEL - Lowest Observed Adverse Effect Level
 N.O.S. - Not Otherwise Specified
 NOAEC - No-Observed Adverse Effect Concentration
 NOAEL - No-Observed Adverse Effect Level
 NOEC - No-Observed Effect Concentration
 OEL - Occupational Exposure Limit
 SDS - Safety Data Sheet

16.3 Date Format

Date format : dd/mm/yyyy

Safety Data Sheet (SDS), Malaysia

Safety Data Sheets are updated from time to time. Please ensure that you have the latest copy. SDS may be obtained from the following website www.nempal.com

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