

Safety Data Sheet**Wannate® HB-75MX**

Version 1.0

Revision Date: 01/05/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product name** : Wannate® HB-75MX**Recommended use of the chemical and restrictions on use**

Recommended use : Reserved for industrial and professional use.

Supplier or Repackaging Details**Company** : Univar Solutions Brasil Ltda
Address : Rua Arinos, 15
Parque Industrial Anhanguera – CEP: 06276-032
Brazil

Manufactured By : Wanhua Chemical (America) Co., Ltd.

Emergency telephone number : (19) 3874-7000 e Ambipar 0800 117 2020**Additional Information:** : Phone: (19) 3874-7000
Fax: (19) 3874-7004
Email: ehsbrasil@univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****Classification according to GHS BR (ABNT NBR 14725-2)**

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 5

Skin irritation : Category 2

Eye irritation : Category 2B

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H313 May be harmful in contact with skin.
H315 + H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Precautionary statements

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Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

CAS-No.	Chemical name	Classification	Concentration (% w/w)
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	Acute toxicity (Oral), Category 5 Acute toxicity (Inhalation), Category 4 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 70 -< 90
1330-20-7	Mixed xylenes	Flammable liquids, Category 3 Acute toxicity (Inhalation), Category 4 Acute toxicity (Dermal), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Central	>= 10 -< 20

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		nervous system, Kidney, Liver), Category 2 Aspiration hazard, Category 1	
822-06-0	Hexane, 1,6-diisocyanato-	Acute toxicity (Oral), Category 4 Acute toxicity (Inhalation), Category 1 Skin irritation, Category 2 Eye irritation, Category 2A Respiratory sensitisation, Category 1 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	≥ 0.1 - < 1

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
Move to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
Do not induce vomiting without medical advice.
Give small amounts of water to drink.

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Most important symptoms and effects, both acute and delayed	If a person vomits when lying on his back, place him in the recovery position. : None known.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Foam Dry powder Carbon dioxide (CO2)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides Smoke Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Specific extinguishing methods	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
- Conditions for safe storage : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : 25 °C
- Storage period : 6 Months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1330-20-7	Mixed xylenes	LT	78 ppm 340 mg/m3	BR OEL

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	Further information: Degree of harmfulness: medium			
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
822-06-0	Hexane, 1,6-diisocyanato-	TWA	0.005 ppm	ACGIH

Personal protective equipment

Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	:	Combined inorganic gas/vapour and organic vapour type
Hand protection	:	
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless, light yellow
Odour	:	solvent-like
Odour Threshold	:	No data available
pH	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash point	:	38 °C (100 °F)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	7.0 - 10.8 %(V)
Lower explosion limit	:	0.9 - 1.5 %(V)
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity	:	

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Viscosity, dynamic : 225 mPa.s @ 25 °C (77 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Hazardous polymerisation may occur. Mixture reacts slowly with water resulting in evolution of CO ₂ .
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: No data available
Hazardous decomposition products	: Hydrogen cyanide (hydrocyanic acid) Isocyanates Other hazardous decomposition products may be formed.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	: Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: Acute toxicity estimate: 5.57 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	: Assessment: The component/mixture is minimally toxic after single contact with skin.

Components:**28182-81-2:**

Acute oral toxicity	: LD50 (Rat): > 2,500 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): mg/m ³ 462 Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rabbit): > 15,800 mg/kg

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1330-20-7:

Acute inhalation toxicity : LC50 (Rat, male): 6700 ppm
Exposure time: 4 h
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg
Assessment: The component/mixture is moderately toxic after single contact with skin.

822-06-0:

Acute oral toxicity : LD50 (Rat): 959 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 0.124 mg/l
Assessment: The component/mixture is extremely toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation**Product:**

Result: Irritating to skin.

Components:**28182-81-2:**

Species: Rabbit
Result: No skin irritation

1330-20-7:

Species: Rabbit
Exposure time: 24 h
Result: Irritating to skin.

822-06-0:

Species: Rabbit
Exposure time: 24 h
Result: Irritating to skin.

Serious eye damage/eye irritation**Product:**

Result: Irritation to eyes, reversing within 7 days

Components:**28182-81-2:**

Species: Rabbit
Result: Not irritating to eyes

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1330-20-7:

Species: Rabbit

Result: Irritating to eyes.

822-06-0:

Species: Rabbit

Result: Irritating to eyes.

Exposure time: 24 h

Respiratory or skin sensitisation**Product:****Components:****28182-81-2:**

Test Type: Maximization test

Species: Guinea pig

Result: May cause sensitisation by skin contact.

822-06-0:

Test Type: lymph node assay

Species: Mouse

Result: May cause sensitisation by skin contact.

Species: Guinea pig

Result: May cause sensitisation by inhalation.

Germ cell mutagenicity**Components:****28182-81-2:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Result: negative

Genotoxicity in vivo

: Test Type: In vivo micronucleus test

Species: Mouse

Result: negative

Germ cell mutagenicity -
Assessment: Tests on bacterial or mammalian cell cultures did not show
mutagenic effects.**822-06-0:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Result: negative

Genotoxicity in vivo

: Test Type: In vivo micronucleus test

Species: Mouse

Result: negative

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Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity**Components:****28182-81-2:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

822-06-0:

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity**Components:****28182-81-2:**

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

822-06-0:

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

STOT - single exposure**Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:**28182-81-2:**

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

1330-20-7:

Assessment: May cause respiratory irritation.

822-06-0:

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation., The substance or mixture is classified as specific

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target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure**Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:**1330-20-7:**

Target Organs: Central nervous system, Kidney, Liver

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity**Product:**

No aspiration toxicity classification

Components:**28182-81-2:**

No aspiration toxicity classification

1330-20-7:

May be fatal if swallowed and enters airways.

Further information**Product:**

Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****28182-81-2:**

Toxicity to fish : LL0 (Danio rerio (zebra fish)): 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 25 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1,000
mg/l
Exposure time: 72 h
Test Type: static test

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822-06-0:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): > 89.1 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Persistence and degradability**Components:****1330-20-7:**

- Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 20 d

822-06-0:

- Biodegradability : Inoculum: activated sludge
Biodegradation: 42 %
Testing period: 8 d
Exposure time: 28 d
Test substance: HDI
Remarks: Not readily biodegradable.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
- Contaminated packaging : Comply with the applicable regulations for the disposal of solid waste. Disposal should be carried out in accordance with official legislation.

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SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S., Flammable liquid, n.o.s.
(HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER,
GLYCOL ETHER PM ACETATE)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER,
GLYCOL ETHER PM ACETATE)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

National Regulations**ANTT**

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Class : 3
Packing group : III
Labels : 3
Hazard Identification Number : 30

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. INFORMATION ABOUT REGULATIONS

Specific regulations for the chemical product : Brazilian local regulations: ABNT NBR 14725 Standard
Federal Decree No. 2,657, of July 3, 1998 – Promulgates ILO
Convention No. 170, on Safety in the Use of Chemicals at
Work, signed in Geneva, on June 25, 1990.

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Ordinance No. 229, of May 24, 2011 - Amends Regulatory Standard No. 26
Resolution No. 5232, of December 14, 2016 - Approves the Supplementary Instructions to the Land Regulations for the Transport of Dangerous Goods, and makes other provisions.

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 01/05/2023

Material number:

16194651, 16196011, 16196603, 16196922, 16131883

Other information : This MSDS was prepared based on current knowledge on the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, are the responsibility of the user. It is cautioned that the handling of any quantum substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company that uses the product to promote the training of its employees regarding the possible risks arising from exposure to the chemical product.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance

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Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

BR / EN