

Safety Data Sheet WAX EMULSION 50

1. Product and company identification

Product name : WAX EMULSION 50

Material uses : Industrial applications: Ceramics.

Internal code : 27400
System code : 27400
Date of issue/Date of revision : 5/18/2021
Date of previous issue : 7/12/2016
Version : 1.04

Supplier : Innospec Active Chemicals LLC

500 Hinkle Lane Salisbury, NC 28144 United States of America

Information contact : 1-704-633-8028

e-mail address of person responsible : sdsinfo@innospecinc.com

for this SDS

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

Country information : Emergency telephone number

USA, Canada, Puerto Rico, Virgin Islands : +1 800 424 9300 In case of difficulties, or for ships at sea : +1 703 527 3887

In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



The main regional centres are listed here in Section 1.

Other local contact numbers for specific language support in Asia Pacific are listed in Section 16

Country information ; Emergency telephone number Location

South America (all countries) +1 215 207 0061 Philadelphia USA

 Brazil
 +55 11 3197 5891
 Brazil

 Mexico
 +52 555 004 8763
 Mexico

 Europe (all countries) Middle East, Africa (French, Portuguese, English)
 +44 (0) 1235 239 670
 London, UK

Middle East, Africa (Arabic, French, English , Portuguese, : +44 (0) 1235 239 671 London, UK

Asia Pacific (all countries except China) : +65 3158 1074 Singapore

China 400 120 6011 Beijing China

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture GHS label elements : FOXIC TO REPRODUCTION - Category 2

Hazard pictograms :

Signal word : Marning

Hazard statements : 🔀61 - Suspected of damaging fertility or the unborn child.

Precautionary statements

Prevention : 201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection.

Response : F308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage: 7405 - Store locked up.

Disposal : F501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise

classified

: None known.

Target organs : Contains material which causes damage to the following organs: upper respiratory tract,

skin, eye, lens or cornea.

See toxicological information (Section 11)

Section 3. Composition/information on ingredients

Mivture

Substance/illixture . Whitere		
Ingredient name	%	CAS number
2,2',2"-nitrilotriethanol 2,2'-iminodiethanol; diethanolamine	1 - 4.99 0.1 - <1	102-71-6 111-42-2

Other CAS no.

Substance/mixture

2,2',2"-nitrilotriethanol
2,2'-iminodiethanol; diethanolamine

1,2-benzothiazoline 3-one

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

Additional information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : mmediately

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may

need to be kept under medical surveillance for 48 hours.

Skin contact : Tush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Kemove dentures if any. Wash out mouth with water. Stop if the exposed person feels

sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Inhalation : Inh

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Indiverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Ingest

reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Flash point

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: Closed cup: >93.3°C (>199.9°F)

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: 5/18/2021

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see

Section 6. Accidental release measures

Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Fut on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2,2',2"-nitrilotriethanol	ACGIH TLV (United States, 3/2020).
	TWA: 5 mg/m³, 0 times per shift, 8 hours.
2,2'-iminodiethanol; diethanolamine	OSHA PEL 1989 (United States, 3/1989).
_,,	TWA: 3 ppm, 0 times per shift, 8 hours.
	TWA: 15 mg/m³, 0 times per shift, 8 hours.
	NIOSH REL (United States, 10/2016).
	TWA: 3 ppm, 0 times per shift, 10 hours.
	TWA: 15 mg/m³, 0 times per shift, 10 hours.
	ACGIH TLV (United States, 3/2020). Absorbed through skin.
	TWA: 1 mg/m³, 0 times per shift, 8 hours. Form: Inhalable fraction
	and vapor

Appropriate engineering controls

: Wuser operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Sased on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Mobile liquid.]

Color : White.

Odor : Not available.

Odor threshold : Not available.

pH : 7.5 to 8 [Conc. (% w/w): 5%]

Melting point/freezing point : Not available.

Boiling point : 100°C (212°F)

Flash point Closed cup: >93.3°C (>199.9°F)

Evaporation rate 0.01 (2,2',2"-nitrilotriethanol) compared with butyl acetate

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits

Vapor pressure

Greatest known range: Lower: 3.6% Upper: 7.2% (2,2',2"-nitrilotriethanol)

: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.05 kPa (22.88 mm Hg) (at 20°C)

Vapor density : Highest known value: 5.14 (Air = 1) (2,2',2"-nitrilotriethanol).

Density : 0.9 g/cm³ [20°C (68°F)]

WAX EMULSION 50

Section 9. Physical and chemical properties

Specific gravity

: Not available.

: Not available.

Solubility

: Easily soluble in the following materials: cold water, hot water.

Partition coefficient: n-

Auto-ignition temperature

octanol/water

Decomposition temperature Not available. **Viscosity**

Lowest known value: 324°C (615.2°F) (2,2',2"-nitrilotriethanol). Not available.

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

Possibility of hazardous

: The product is stable. : Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

: No specific data.

Conditions to avoid Incompatible materials

: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Dose
2,2',2"-nitrilotriethanol	7.	Rat	LD50 Oral	7.39 g/kg

Potential chronic health effects

Not available.

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
2,2',2"-nitrilotriethanol	-	Rabbit	Eyes - Mild irritant
	÷	Rabbit	Eyes - Severe irritant
	=	Human	Skin - Mild irritant
	2	Mouse	Skin - Severe
	-	Rabbit	Skin - Mild irritant
2,2'-iminodiethanol; diethanolamine	-	Rabbit	Eyes - Severe
	-	Rabbit	Skin - Mild irritant

Sensitization

Not available.

Mutagenicity

WAX EMULSION 50

Section 11. Toxicological information

Not available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
2,2',2"-nitrilotriethanol 2,2'-iminodiethanol; diethanolamine	-	3	₽ ₽

Reproductive toxicity

Product/ingredient name	Test	Species	Result	Dose
2'-iminodiethanol; diethanolamine	OECD 443 Extended One- Generation Reproductive Toxicity Study OECD 443 Extended One-	Rat	Reproductive effects Developmental	Oral: 300 ppm Oral: 100 ppm
	Generation Reproductive Toxicity Study		effects	

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2,2'-iminodiethanol; diethanolamine	Category 2		blood system, kidneys, liver

Aspiration hazard

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2.2',2"-nitrilotriethanol	Acute EC50 470 mg/l	Algae	48 hours
	Acute EC50 609.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 609.98 to 658.3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800 mg/l	Fish	96 hours
	Chronic NOEC 16000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
2,2'-iminodiethanol; diethanolamine	Acute LC50 100 mg/l	Fish	96 hours
	Chronic NOEC <24000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

14/41/	<i>FMUI</i>	0104	1

Section 12. Ecological information

Product/ingredient name	Test		Res	
2/2'-iminodiethanol; diethanolamine	301F Ready Biodegradability - Manometric Respirometry Test		93 % - Readily - 28 days	
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability
2,2'-iminodiethanol; diethanolamine	н	H		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2',2"-nitrilotriethanol 2,2'-iminodiethanol; diethanolamine	-2.3 -1.43	3.89	low low

Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	•
Transport hazard class(es)	-		in.
Packing group	-	₩.	on.
Environmental hazards	No.	No.	No.

Date of issue/Date of revision

: 5/18/2021

J/12

WAX EMULSION 50 Section 14. Transport information Reportable quantity 25138.3 Additional lbs / 11412.8 kg [3349.9 gal / information 12680.9 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations

: Commerce control list precursor: 2,2',2"-nitrilotriethanol

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

: Listed

(b) Hazardous Air **Pollutants (HAPs)**

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: POXIC TO REPRODUCTION - Category 2

State regulations

Massachusetts

: The following components are listed: PARAFFIN WAX FUME; TRIETHANOLAMINE

New York

: None of the components are listed.

New Jersey

: The following components are listed: PARAFFIN WAX; PARAFFIN WAXES and HYDROCARBON WAXES; TRIETHANOLAMINE; ETHANOL, 2,2',2"-NITRILOTRIS-

Pennsylvania

: The following components are listed: PARAFFIN WAXES AND HYDROCARBON

WAXES; 9-OCTADECENOIC ACID (Z)-; ETHANOL, 2,2',2"-NITRILOTRIS-

California Prop. 65

: This product does not require a Safe Harbor warning under California Prop. 65.

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Friethanolamine	Schedule III	Listed

International lists

National inventory

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

: All components are listed or exempted.

Date of issue/Date of revision

: 5/18/2021

10/12

Section 15. Regulatory information

Europe inventory Japan inventory

All components are listed or exempted.

Tapan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New □ealand Inventory of Chemicals (N□loC)

Philippines inventory (PICCS)

Korea inventory (KECI) Taiwan inventory (TCSI)

United States inventory (TSCA 8b)

: All components are listed or exempted.

All components are listed or exempted.

All components are listed or exempted.

| components are listed or exempted.

: All components are listed or exempted.

Our REACH registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and

2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our registrations Customers and other third parties importing and/or re-importing our products into Europe will need either:

- Their own registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or

- In the case of importation only, to make use of the "Only Representative" provisions, if available.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright 🗆 1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright 02001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>

Date of printing 2021-05-18 5/18/2021 Date of issue/Date of

revision

Date of previous issue 7/12/2016 1.04

Version

WAX EMULSION 50

Section 16. Other information

Key to abbreviations

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.