

Safety Data Sheet acc. to OSHA HCS

Reviewed on 11/21/2022

1 Identification

- · Product identifier
- · Product Name: <u>NITROSAMINES MIX</u>
- · Part Name: 8270-AF-C
- · Restrictions
- This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.
- · Application of the substance / the mixture Certified Reference Material
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Spex CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA 732-549-7144 USMet-CRMSales@antylia.com
- Information department: product safety department • Emergency telephone number: Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
- Outside US: 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Carcinogenicity 1B

H350 May cause cancer.



Acute Toxicity - Oral 4 Skin Irritation 2 H302 Harmful if swallowed. H315 Causes skin irritation.

- Specific Target Organ Toxicity Single Exposure 3 H336 May cause drowsiness or dizziness.
- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling:
- dichloromethane 1-nitrosopiperidine dimethylnitrosoamine nitrosodipropylamine · Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H350 May cause cancer. H336 May cause drowsiness or dizziness. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

Printing date 11/21/2022

Product Name: NITROSAMINES MIX

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(Contd. of page 1)

P321 Specific treatment (see on this label).

- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



Fire = 1Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
75-09-2	dichloromethane	98.2%
	diethylnitrosoamine	0.2%
59-89-2	N-nitrosomorpholine	0.2%
	dimethylnitrosoamine	0.2%
86-30-6	nitrosodiphenylamine	0.2%
	1-nitrosopiperidine	0.2%
	nitrosodipropylamine	0.2%
924-16-3	N-nitrosodibutylamine	0.2%
	1-nitrosopyrrolidine	0.2%
10595-95-6	N-Nitrosomethylethylamine	0.2%

Safety Data Sheet

acc. to OSHA HCS

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:
- Immediately call a doctor.
- Do not give anything to eat or drink Do not induce vomitting
- Information for Doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. of page 2)

Page 3/9

6 Accidental release measures

· PAC-1: 200 ppm 75-09-2 dichloromethane 200 ppm 59-89-2 N-nitrosomorpholine 0.85 mg/m³ 62-75-9 dimethylnitrosoamine 0.082 mg/m³ 86-30-6 nitrosodiphenylamine 5.5 mg/m³ 621-64-7 nitrosodipropylamine 5.6 mg/m³ ·PAC-2: - - 75-09-2 dichloromethane 560 ppm 59-89-2 N-nitrosomorpholine 9.3 mg/m³ 621-64-7 nitrosodiphenylamine 560 ppm 59-89-2 M-nitrosomorpholine 9.3 mg/m³ 621-64-7 nitrosodiphenylamine 0.9 mg/m³ 62-75-9 dimethylnitrosoamine 9.3 mg/m³ 62-75-9 dimethylnitrosoamine 0.9 mg/m³ 621-64-7 nitrosodiphenylamine 62 mg/m³ 621-64-7 dichloromethane 6,900 ppm 59-89-2 N-nitrosomorpholine 56 mg/m³ 621-64-7 nitrosomorpholine 56 mg/m³ 621-64-7 dichloromethane 500 ppm 59-89-2 N-nitrosomorpholine 56 mg/m³ 62-75-9 dimethylnitrosoamine	Environme Methods an Absorb witt Dispose co Ensure ade Reference See Section See Section See Section Protective	recautions, protective equipment and emergency procedures Not required. ental precautions: Do not allow to enter sewers/ surface or ground water. and material for containment and cleaning up: h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Intaminated material as waste according to item 13. quate ventilation. to other sections 17 for information on safe handling. 18 for information on personal protection equipment. 13 for disposal information. Action Criteria for Chemicals	
59-89-2 N-nitrosomorpholine 0.85 mg/m ³ 62-75-9 dimethylnitrosoamine 0.082 mg/m ³ 86-30-6 nitrosodiphenylamine 5.5 mg/m ³ 621-64-7 nitrosodipropylamine 5.6 mg/m ³ •PAC-2: 75-09-2 dichloromethane 560 ppm 59-89-2 N-nitrosomorpholine 9.3 mg/m ³ 62-75-9 dimethylnitrosoamine 0.9 mg/m ³ 62-75-9 dimethylnitrosoamine 0.9 mg/m ³ 62-75-9 dimethylnitrosoamine 60 mg/m ³ 62-75-9 dimethylnitrosoamine 60 mg/m ³ 62-75-9 dichloromethane 52 mg/m ³ 62-75-9 dimethylnitrosoamine 60 mg/m ³ 62-75-9 dichloromethane 62 mg/m ³ 621-64-7 nitrosodipnenylamine 62 mg/m ³ •PAC-3: 75-09-2 dichloromethane 56 mg/m ³ 75-09-2 dichloromethane 56 mg/m ³ 62-75-9 dimethylnitrosoamine 56 mg/m ³ 62-75-9 dimethylnitrosoamine 10 mg/m ³ 86-30-6 <th></th> <th></th> <th></th>			
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86-30-6 nitrosodiphenylamine 60 mg/m ³ 621-64-7 nitrosodipropylamine 62 mg/m ³ PAC-3: 75-09-2 dichloromethane 6,900 ppm 59-89-2 N-nitrosomorpholine 56 mg/m ³ 56 mg/m ³ 62-75-9 dimethylnitrosoamine 10 mg/m ³ 86-30-6 nitrosodiphenylamine 360 mg/m ³	59-89-2 1	N-nitrosomorpholine	9.3 mg/m ³
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75-09-2 dichloromethane 6,900 ppm 59-89-2 N-nitrosomorpholine 56 mg/m ³ 62-75-9 dimethylnitrosoamine 10 mg/m ³ 86-30-6 nitrosodiphenylamine 360 mg/m ³	621-64-7 n	nitrosodipropylamine	62 mg/m ³
59-89-2 N-nitrosomorpholine 56 mg/m ³ 62-75-9 dimethylnitrosoamine 10 mg/m ³ 86-30-6 nitrosodiphenylamine 360 mg/m ³	• PAC-3:		
62-75-9 dimethylnitrosoamine 10 mg/m ³ 86-30-6 nitrosodiphenylamine 360 mg/m ³	75-09-2 0	lichloromethane	6,900 ppm
86-30-6 nitrosodiphenylamine 360 mg/m ³	59-89-2 1	N-nitrosomorpholine	56 mg/m ³
	62-75-9 d	limethylnitrosoamine	10 mg/m ³
621-64-7 nitrosodipropylamine 95 mg/m ³	86-30-6 r	nitrosodiphenylamine	360 mg/m ³
	621-64-7 r	nitrosodipropylamine	95 mg/m ³

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

l	75-09	9-2 dichloromethane	
Γ	PEL	Short-term value: 125 ppm	
		Long-term value: 25 ppm see 29 CFR 1910.1052	
	REL	See Pocket Guide App. A	
		Long-term value: 50 ppm BEL A3	

(Contd. on page 4)

	(Contd. of page 3)		
62-7	5-9 dimethylnitrosoamine		
PEL	see 29 CFR 1910.1003		
REL	See Pocket Guide App. A		
TLV	Skin; L, A3		
· Ingr	edients with biological limit values:		
75-09-2 dichloromethane			
	BEI 0.3 mg/L		
	Medium: urine		
	Time: end of shift		
Parameter: Dichloromethane (semi-quantitative)			
· Add	• Additional information: The lists that were valid during the creation were used as basis.		
·Exp	· Exposure controls		

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection:
- Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

<i>y 1 1</i>			
· Information on basic physical and chemical properties			
· General Information			
· Appearance:			
Form:	Liquid		
Color:	According to product specification		
· Odor:	Characteristic		
· Odour Threshold:	Not applicable.		
· pH-value:	Not applicable.		
· Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	40 °C (104 °F)		
· Flash point:	> 100 °C (> 212 °F)		
· Flammability (solid, gaseous):	Not applicable.		
· Ignition temperature:	605 °C (1,121 °F)		
· Decomposition temperature:	Not applicable.		
· Auto igniting:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
	(Contd. on page 5)		

Page 5/9

	(Contd.	of page 4
· Explosion limits:		
Lower:	13 Vol %	
Upper:	22 Vol %	
\cdot Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)	
· Density	Not applicable.	
· Relative density	Not applicable.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	98.2 %	
VOC content:	0.00 %	
Solids content:	0.2 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

75-09-2 dichloromethane

Oral LD50 1,600 mg/kg (rat)

Inhalative LC50/4 h 88 mg/l (rat)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
75-09-2	dichloromethane	2A
55-18-5	diethylnitrosoamine	2A
	N-nitrosomorpholine	28
62-75-9	dimethylnitrosoamine	2A
86-30-6	nitrosodiphenylamine	3
	1-nitrosopiperidine	28
621-64-7	nitrosodipropylamine	28
924-16-3	N-nitrosodibutylamine	28
930-55-2	1-nitrosopyrrolidine	28
10595-95-6	N-Nitrosomethylethylamine	28
	(Contd. on	page 6)

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Page 6/9

		(Contd. of page 5)
• NTP (Nat	ional Toxicology Program)	
75-09-2	dichloromethane	R
55-18-5	diethylnitrosoamine	R
59-89-2	N-nitrosomorpholine	R
62-75-9	dimethylnitrosoamine	R
	1-nitrosopiperidine	R
621-64-7	nitrosodipropylamine	R
924-16-3	N-nitrosodibutylamine	R
930-55-2	1-nitrosopyrrolidine	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
75-09-2 d	lichloromethane	
62-75-9 d	limethylnitrosoamine	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1593
· UN proper shipping name · DOT · ADR · IMDG, IATA	Dichloromethane 1593 DICHLOROMETHANE DICHLOROMETHANE
· Transport hazard class(es)	
·DOT	
· Class	6.1 Toxic substances
·Label	6.1
· ADR, IMDG, IATA	
· Class	6.1 Toxic substances
L	

Safety Data Sheet acc. to OSHA HCS

Page 7/9

Reviewed on 11/21/2022

Product Name: NITROSAMINES MIX

	(Contd. of page 6
Label	6.1
Packing group	
· DOT, ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kemler code):	60
EMS Number:	F- A , S - B
Segregation groups	(SGG1) Acids
Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 a	and the IBC Code Not applicable.
Transport/Additional information:	
ADR	
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III

15 Regulatory information

· Section 3	213 (Specific toxic chemical listings):	
75-09-2	dichloromethane	
55-18-5	diethylnitrosoamine	
59-89-2	N-nitrosomorpholine	
62-75-9	dimethylnitrosoamine	
86-30-6	nitrosodiphenylamine	
	1-nitrosopiperidine	
621-64-7	nitrosodipropylamine	
	N-nitrosodibutylamine oxic Substances Control Act):	
75-09-2	r paint or coating removal. dichloromethane diethylnitrosoamine	
	dimethylnitrosoamine	ACTIV
	nitrosodiphenylamine	ACTIV
	1-nitrosopiperidine	ACTIV
	nitrosodipropylamine	ACTIV
924-16-3	N-nitrosodibutylamine	ACTIV
930-55-2	1-nitrosopyrrolidine	ACTIV
Hazardoi	us Air Pollutants	l.
75-09-2	dichloromethane	
59-89-2	N-nitrosomorpholine	
62-75-9	dimethylnitrosoamine	
	ion 65	
· Propositi	ls known to cause cancer:	
-	dients are listed.	
• Chemica All ingred	ls known to cause reproductive toxicity for females:	
• Chemica All ingred • Chemica	Is known to cause reproductive toxicity for females: he ingredients is listed.	
Chemica All ingred Chemica None of t		

Page 8/9

		(Contd. of page 7
· Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
· Carcinogen	ic categories	
· EPA (Envir	conmental Protection Agency)	
75-09-2	dichloromethane	
55-18-5	diethylnitrosoamine	B2
62-75-9	dimethylnitrosoamine	B2
86-30-6	nitrosodiphenylamine	B2
621-64-7	nitrosodipropylamine	B2
924-16-3	N-nitrosodibutylamine	B2
930-55-2	1-nitrosopyrrolidine	B2
10595-95-6	N-Nitrosomethylethylamine	B2
• TLV (Thres	hold Limit Value)	`
75-09-2 dia	chloromethane	A3
62-75-9 dir	nethylnitrosoamine	A3
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	`
75-09-2 dia	chloromethane	

62-75-9 dimethylnitrosoamine

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



011507 01150

· Signal word Danger

· Hazard-determining components of labeling:

dichloromethane

- 1-nitrosopiperidine dimethylnitrosoamine
- nitrosodipropylamine
- · Hazard statements
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H350 May cause cancer.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

— US —

Safety Data Sheet acc. to OSHA HCS

Certiprep
Printing date 11/21/2022

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Product Name: NITROSAMINES MIX

· Department issuing SDS: product safety department	
· Contact:	
Spex CertiPrep, LLC.	
1-732-549-7144	
1,0200,000	
• Date of preparation / last revision 11/21/2022	
· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Danger	rous Goods by Road
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Acute Toxicity - Oral 4: Acute toxicity - Category 4	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Carcinogenicity 1B: Carcinogenicity – Category 1B	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	

Reviewed on 11/21/2022

(Contd. of page 8)