

## 1 Identification

### · Product identifier

· **Product Name:** Base/Neutral Spiking Mix

· **Part Name:** ECS-N-005

### · 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.

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Skin Irritation 2

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



GHS07



GHS08

### · Signal word Danger

### · Hazard-determining components of labeling:

dichloromethane  
dibutyl phthalate  
2,4-dinitrotoluene  
acenaphthene

### · Hazard statements

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
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.

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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.

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

· PBT:	
120-82-1	1,2,4-trichlorobenzene
129-00-0	pyrene
· vPvB:	
129-00-0	pyrene

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

75-09-2	dichloromethane	99.3%
84-74-2	dibutyl phthalate	0.1%
106-46-7	1,4-dichlorobenzene	0.1%
120-82-1	1,2,4-trichlorobenzene	0.1%
121-14-2	2,4-dinitrotoluene	0.1%
129-00-0	pyrene	0.1%
621-64-7	nitrosodipropylamine	0.1%

· Chemical identification of the substance/preparation

83-32-9	acenaphthene	0.1%
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### 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 vomiting

· 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.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

75-09-2	dichloromethane	200 ppm
83-32-9	acenaphthene	3.6 mg/m <sup>3</sup>
84-74-2	dibutyl phthalate	15 mg/m <sup>3</sup>
106-46-7	1,4-dichlorobenzene	30 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
121-14-2	2,4-dinitrotoluene	0.6 mg/m <sup>3</sup>
129-00-0	pyrene	0.15 mg/m <sup>3</sup>
621-64-7	nitrosodipropylamine	5.6 mg/m <sup>3</sup>

### · PAC-2:

75-09-2	dichloromethane	560 ppm
83-32-9	acenaphthene	40 mg/m <sup>3</sup>
84-74-2	dibutyl phthalate	1,600 mg/m <sup>3</sup>
106-46-7	1,4-dichlorobenzene	170 ppm
120-82-1	1,2,4-trichlorobenzene	5 ppm
121-14-2	2,4-dinitrotoluene	12 mg/m <sup>3</sup>
129-00-0	pyrene	1.7 mg/m <sup>3</sup>
621-64-7	nitrosodipropylamine	62 mg/m <sup>3</sup>

### · PAC-3:

75-09-2	dichloromethane	6,900 ppm
83-32-9	acenaphthene	240 mg/m <sup>3</sup>
84-74-2	dibutyl phthalate	9300* mg/m <sup>3</sup>
106-46-7	1,4-dichlorobenzene	1,000 ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm
121-14-2	2,4-dinitrotoluene	200 mg/m <sup>3</sup>
129-00-0	pyrene	110 mg/m <sup>3</sup>
621-64-7	nitrosodipropylamine	95 mg/m <sup>3</sup>

## 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 section 7.

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· **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.

<b>75-09-2 dichloromethane</b>	
PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 50 ppm BEI, A3
<b>84-74-2 dibutyl phthalate</b>	
PEL	Long-term value: 5 mg/m <sup>3</sup>
REL	Long-term value: 5 mg/m <sup>3</sup>
TLV	Long-term value: 5 mg/m <sup>3</sup>
<b>106-46-7 1,4-dichlorobenzene</b>	
PEL	Long-term value: 450 mg/m <sup>3</sup> , 75 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 10 ppm A3
<b>120-82-1 1,2,4-trichlorobenzene</b>	
REL	Ceiling limit value: 40 mg/m <sup>3</sup> , 5 ppm
TLV	Ceiling limit value: 5 ppm
<b>· Ingredients with biological limit values:</b>	
<b>75-09-2 dichloromethane</b>	
BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **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

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## 9 Physical and chemical properties

### · 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.

· Auto igniting: 605 °C (1,121 °F)

· Decomposition temperature: Not applicable.

· Ignition temperature: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits:

Lower:	13 Vol %
Upper:	22 Vol %

· 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/water): Not applicable.

#### · Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

#### · Solvent content:

Organic solvents:	99.4 %
VOC content:	0.10 %

Solids content: 0.4 %

· 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.

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- **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  
Product is suspected to cause damage to fertility.  
Product is suspected to cause birth defects.

· **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
75-09-2	dichloromethane	2A
83-32-9	acenaphthene	3
106-46-7	1,4-dichlorobenzene	2B
121-14-2	2,4-dinitrotoluene	2B
129-00-0	pyrene	3
621-64-7	nitrosodipropylamine	2B
· <b>NTP (National Toxicology Program)</b>		
75-09-2	dichloromethane	R
106-46-7	1,4-dichlorobenzene	R
129-00-0	pyrene	R
621-64-7	nitrosodipropylamine	R
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
75-09-2	dichloromethane	

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **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 of drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**

· <b>PBT:</b>		
120-82-1	1,2,4-trichlorobenzene	
129-00-0	pyrene	
· <b>vPvB:</b>		
129-00-0	pyrene	

- **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

· <b>UN-Number</b>	
· <b>DOT, ADR, IMDG, IATA</b>	UN1593
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Dichloromethane
· <b>ADR</b>	1593 DICHLOROMETHANE
· <b>IMDG, IATA</b>	DICHLOROMETHANE



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

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<b>· Section 313 (Specific toxic chemical listings):</b>	
75-09-2	dichloromethane
84-74-2	dibutyl phthalate
106-46-7	1,4-dichlorobenzene
120-82-1	1,2,4-trichlorobenzene
121-14-2	2,4-dinitrotoluene
621-64-7	nitrosodipropylamine

- TSCA (Toxic Substances Control Act):  
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.

All components have the value ACTIVE.

<b>· Hazardous Air Pollutants</b>	
75-09-2	dichloromethane
84-74-2	dibutyl phthalate
106-46-7	1,4-dichlorobenzene
120-82-1	1,2,4-trichlorobenzene

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121-14-2	2,4-dinitrotoluene
129-00-0	pyrene

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
621-64-7	nitrosodipropylamine

· **Chemicals known to cause reproductive toxicity for females:**

84-74-2	dibutyl phthalate
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· **Chemicals known to cause reproductive toxicity for males:**

84-74-2	dibutyl phthalate
121-14-2	2,4-dinitrotoluene

· **Chemicals known to cause developmental toxicity:**

84-74-2	dibutyl phthalate
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
84-74-2	dibutyl phthalate	D
120-82-1	1,2,4-trichlorobenzene	D
129-00-0	pyrene	D
621-64-7	nitrosodipropylamine	B2

· **TLV (Threshold Limit Value)**

75-09-2	dichloromethane	A3
106-46-7	1,4-dichlorobenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

75-09-2	dichloromethane
106-46-7	1,4-dichlorobenzene

· **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  
dibutyl phthalate  
2,4-dinitrotoluene  
acenaphthene

· **Hazard statements**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
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.

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P405 Store locked up.

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

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:** Carcinogenic hazardous material group III (dangerous).

· **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.

· **Department issuing SDS:** product safety department

· **Contact:**

Spex CertiPrep, LLC.

1-732-549-7144

· **Date of preparation / last revision** 08/10/2023

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous 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

BEL: Biological Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Carcinogenicity 1B: Carcinogenicity – Category 1B

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3