

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071048826

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071048974

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078907862

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## FORMULA 2000 PLUS COMPONENT 1

Print date: 18.12.2014

Product code: 1295-2

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### 1. Identification

#### Product identifier

FORMULA 2000 PLUS COMPONENT 1

#### Use of the substance/mixture

Cleaner

#### Details of the supplier of the safety data sheet

Company name: Air Techniques, Inc.  
Street: 1295 Walt Whitman Road,  
Place: USA Melville, NY 11747  
Telephone: 516-433-7676  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

**Emergency phone number:** for US and Canada: 1-800 424-9300 (CHEMTREC)

### 2. Hazard(s) identification

#### Classification of the chemical

Hazard categories:  
Acute toxicity: Acute Tox. 4  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Respiratory/skin sensitization: Skin Sens. 1  
Carcinogenicity: Carc. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Specific target organ toxicity - repeated exposure: STOT RE 2  
Hazard Statements:  
Harmful if swallowed  
Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging the unborn child  
May cause damage to organs through prolonged or repeated exposure

#### Label elements

Signal word:

Danger

Pictograms:

exclamation mark; health hazard



#### Hazard statements

Harmful if swallowed  
Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging the unborn child  
May cause damage to organs through prolonged or repeated exposure

#### Precautionary statements

Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not eat, drink or smoke when using this product.

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Wash hands thoroughly after handling.  
Obtain special instructions before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Store locked up.  
If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. if you feel unwell.  
If exposed or concerned: Get medical advice/attention.  
Dispose of contents/container in accordance with local and national regulations.

**Hazards not otherwise classified**

No data available.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture

**Hazardous components**

CAS No	Components	Quantity
62-56-6	thiocarbamide, thiourea	5 %
2809-21-4	Etidronic acid	5 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

**After contact with skin**

Remove contaminated soaked clothing immediately.  
Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Summon a doctor immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.  
Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**

DANGER!  
Irritating to eyes, respiratory system and skin.  
Limited evidence of a carcinogenic effect.  
May cause sensitization by inhalation and skin contact.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

**Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

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**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.**Unsuitable extinguishing media**

Full water jet.

**Specific hazards arising from the chemical**

Fire may produce: Carbon monoxide, carbon dioxide and sulphur oxides.

**Special protective equipment and precautions for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Do not breathe gases from fire and explosion.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains or bodies of water.

**Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Disposal according to regulations.

**Reference to other sections**

Information for disposal look up chapter 13.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.

Use only in well-ventilated areas.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Keep at temperatures between 5°C and 25°C.

**Further information on storage conditions**

Store in original container.

Keep away from food, drink and animal feeding stuffs.

**8. Exposure controls/personal protection****Control parameters****Exposure controls**

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**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

Avoid contact with skin, eyes and clothing.

At work do not eat, drink and smoke.

Remove soaked clothing immediately.

**Eye/face protection**

Tightly fitting goggles.

**Hand protection**

Wear protective gloves (rubber or nitrile)

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Protective clothing

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	Colourless, clear
Odor:	Characteristic

**Test method**

pH-Value:	1.0 - 2.0
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**Changes in the physical state**

Flash point:	> 100 °C
Density (at 20 °C):	1.02 - 1.04 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	Completely soluble

**Solubility in other solvents**

Soluble in organic solvent

**Other information**

No data available.

**10. Stability and reactivity****Reactivity**

No data available.

**Chemical stability**

Stability:	Stable
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Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
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No data available.

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**Conditions to avoid**

Protect from moisture.  
To avoid thermal decomposition, do not overheat.

**Incompatible materials**

Strong acids and strong bases.

**Hazardous decomposition products**

Carbon monoxide, Carbon dioxide, Sulphur dioxide (SO<sub>2</sub>)

**Further information**

No decomposition if stored and applied as directed.

**11. Toxicological information****Information on toxicological effects****Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

**Acute toxicity**

Harmful if swallowed

**ATEmix calculated**

ATE (inhalative aerosol) 2,453 mg/l

**Acute toxicity**

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
62-56-6	thiocarbamide, thiourea				
	oral	ATE	500 mg/kg		
2809-21-4	Etidronic acid				
	oral	ATE	500 mg/kg		

**Irritation and corrosivity**

Causes serious eye irritation

**Sensitizing effects**

May cause an allergic skin reaction

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

May cause damage to organs through prolonged or repeated exposure

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer (thiocarbamide, thiourea)

Suspected of damaging the unborn child (thiocarbamide, thiourea)

Carcinogenicity (NTP): listed

Carcinogenicity (IARC): listed , IARC 2B

Carcinogenicity (OSHA): Not listed

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. Ecological information****Ecotoxicity**

No data available.

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**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Other adverse effects**

No data available.

**Further information**

Do not discharge into surface waters/groundwater.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Where possible recycling is preferred to disposal.

In accordance with regulations for special waste, must be taken to a special waste disposal.

**Contaminated packaging**

Contaminated packagings are to be treated like the product itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:** Not regulated.**Other applicable information**

Non hazardous material as defined by the transport regulations.

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

All of the components are listed on the TSCA inventory.

**SARA**

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372. Any such toxic chemical(s) are shown below.

Thiourea : (max. 5%)

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health: \*2

Flammability: 1

Physical Hazard: 0

**NFPA Hazard Ratings**

Health: 2

Flammability: 1

Reactivity: 0

Unique Hazard:

**Changes**

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Revision date: 09.12.2014

Revision No: 1,0

Changes in chapter: -

**Other data**

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## FORMULA 2000 PLUS Component 2

Print date: 12.04.2018

Product code: 1295-3

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### 1. Identification

#### Product identifier

FORMULA 2000 PLUS Component 2

#### Use of the substance/mixture

Cleaner

#### Details of the supplier of the safety data sheet

Company name: Air Techniques, Inc.  
Street: 1295 Walt Whitman Road,  
Place: USA Melville, NY 11747  
Telephone: 516-433-7676  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

**Emergency phone number:** for US and Canada: 1-800 424-9300 (CHEMTREC)

### 2. Hazard(s) identification

#### Classification of the chemical

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Resp. Sens. 1

Respiratory/skin sensitization: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Harmful if swallowed

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Causes serious eye irritation

May cause an allergic skin reaction

#### Label elements

Signal word:

Danger

Pictograms:

exclamation mark; health hazard



#### Hazard statements

Harmful if swallowed

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Causes serious eye irritation

May cause an allergic skin reaction

#### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Wear respiratory protection.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Keep/Store away from combustible materials.

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Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

If eye irritation persists: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

**Hazards not otherwise classified**

No data available.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture

**Hazardous components**

CAS No	Components	Quantity
7775-27-1	Disodium peroxodisulphate	55 %
7757-82-6	Sodium sulfate	55 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

Refer for medical treatment.

**After contact with skin**

Take away immediately by mechanical means.

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.

Summon a doctor immediately.

**After ingestion**

Summon a doctor immediately.

**Most important symptoms and effects, both acute and delayed**

DANGER!

May cause an allergic skin reaction.

Irritating to eyes, respiratory system and skin.

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

**Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**5. Fire-fighting measures**

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## FORMULA 2000 PLUS Component 2

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### Extinguishing media

#### **Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

#### **Unsuitable extinguishing media**

Full water jet.

### Specific hazards arising from the chemical

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides.

### Special protective equipment and precautions for fire-fighters

Use breathing apparatus with independent air supply.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

### Environmental precautions

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

Sweep up and shovel.

### Reference to other sections

Shovel into suitable container for disposal.

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with skin, eyes and clothing.

Keep container tightly closed.

When using do not eat, drink or smoke.

Use only in thoroughly ventilated areas.

"ZH 1/34 ""Data Sheet: Polyurethane manufacture / Isocyanate (M 044)""", "UVV ""Processing of Adhesives"" (VBG 81)"

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed.

Use only in well-ventilated areas.

#### **Advice on storage compatibility**

Keep away from alkali

Keep away from metals

Keep away from combustible material

#### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

## 8. Exposure controls/personal protection

### Control parameters

### Exposure controls

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**FORMULA 2000 PLUS Component 2**

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**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

**Eye/face protection**

Eye wash bottle with pure water.

Tightly fitting goggles.

**Hand protection**

Protective glove (rubber or nitrile)

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Light protective clothing

Long sleeved clothing.

**Respiratory protection**

Use suitable breathing apparatus if there is inadequate ventilation.

Short term: filter apparatus, combination filter B-P3

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Powder
Color:	White
Odor:	Odourless

**Test method****Changes in the physical state**

Bulk density:	1100 kg/m <sup>3</sup>
Water solubility:	Completely soluble

**Other information**

No data available.

**10. Stability and reactivity****Reactivity**

Do not store with combustible materials.

**Chemical stability**

Stability:	Stable
Chemically stable.	

**Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
No data available.	

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

To avoid thermal decomposition, do not overheat. (&gt; 250 °C)

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**Incompatible materials**

Reacts with: Metals, Reducing agents

**Hazardous decomposition products**

Carbon monoxide, carbon dioxide and sulphur oxides.

**Further information**

No decomposition if stored and applied as directed.

**11. Toxicological information****Information on toxicological effects****Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

**Acute toxicity**

Harmful if swallowed

**ATEmix calculated**

ATE (inhalative aerosol) 1,208 mg/l

**Acute toxicity**

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
7775-27-1	Disodium peroxodisulphate				
	oral	ATE	500 mg/kg		

**Irritation and corrosivity**

Causes serious eye irritation

Irritating to eyes, respiratory system and skin.

**Sensitizing effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled (Disodium peroxodisulphate)

May cause an allergic skin reaction (Disodium peroxodisulphate)

May cause sensitization by inhalation and skin contact.

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Further information**

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

**12. Ecological information****Ecotoxicity**

No data available.

**Persistence and degradability**

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No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Other adverse effects**

No data available.

### **Further information**

Do not flush into surface water or sanitary sewer system.  
Hazardous water pollutant.

## 13. Disposal considerations

### **Waste treatment methods**

#### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal.

#### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. Transport information

### **US DOT 49 CFR 172.101**

**Proper shipping name:** Not regulated.

### **Other applicable information**

Non hazardous material as defined by the transport regulations.

## 15. Regulatory information

### **U.S. Regulations**

#### **National Inventory TSCA**

All of the components are listed on the TSCA inventory.

#### **SARA**

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

## 16. Other information

### **Hazardous Materials Information Label (HMIS)**

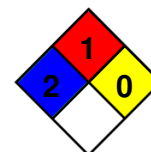
Health: \*2  
Flammability: 1  
Physical Hazard: 0

### **NFPA Hazard Ratings**

Health: 2  
Flammability: 1  
Reactivity: 0  
Unique Hazard:

### **Changes**

Revision date: 18.12.2014  
Revision No: 1,0



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Changes in chapter: 2, 3

#### Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.  
(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*