Tenax	Spa		Revision nr.3 Dated 12/17/2018 Printed on 11/11/2020
BOOS	TER		Page n. 1 / 11 Replaced revision:2 (Dated 3/14/2018)
	Safety Data According to U.S.A. Federal		
1. Identification			
1.1. Product identifier			
Product name	BOOSTER		
1.2. Relevant identified uses of the substance or m	nixture and uses advised aga	inst	
Intended use	Solvent-detergent used for	the removal of dirt a	and organic stains.
Identified Uses ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR 1.3. Details of the supplier of the safety data sheet	-	Professional	Consumer
Name Full address District and Country	Tenax Spa Via I Maggio, 226 37020 Volargne Italy Tel. +39 045 6887593		(VR)
e-mail address of the competent person responsible for the Safety Data Sheet	Fax +39 045 6862456 msds@tenax.it		
Product distribution by:	Tenax Usa 7606 Whitehall Executive C Tel. 001 7045831173 - Fax ( info@tenaxusa.com		0, 28273 Charlotte NC, US
1.4. Emergency telephone number			
For urgent inquiries refer to	Infotrac US and Canada: 1-800-535- Int'l: 1-352-323-3500 info@infotrac.net	5053	

# 2. Hazards identification

# 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information.

Hazard pictograms: Signal words:	
Hazard statements:	
Precautionary statements: Prevention:	
Response:	
Storage:	
Disposal:	

# 2.2. Other hazards

Information not available

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# 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:		
Identificatior	n <b>Conc. %</b>	Classification:
BENZYL AL	COHOL	
CAS	<i>100-51-</i> 6 9.125	Acute toxicity, category 4 H302, Acute toxicity, category 4 H332
EC	202-859-9	
INDEX	603-057-00-5	
2-BUTOXYE	ETHANOL	
CAS	111-76-2 2.375	Flammable liquid, category 4 H227, Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Acute toxicity, category 4 H332, Eye irritation, category 2 H319, Skin irritation, category 2 H315
EC	203-905-0	
INDEX	603-014-00-0	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### 4. First-aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# 5. Fire-fighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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# 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### 7. Handling and storage

# 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

# 8. Exposure controls/personal protection

### 8.1. Control parameters

## Regulatory References:

USA USA	NIOSH-REL OSHA-PEL	NIOSH publication No. 2005-149, 3th printing, 2007. Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

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#### 8. Exposure controls/personal protection ..../>>

				2-BUTO	<b>XYETHANO</b>	L		
Threshold Limit	Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH	-	97	20					
OSHA	USA	240	50			SKIN		
CAL/OSHA	USA	97	20			SKIN		
NIOSH	USA	24	5			SKIN		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

TLV of solvent mixture: 97 mg/m3

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	yellowish	
Odour	characteristic	
Odour threshold	Not available	
pH	Not available	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 93 °C	(199,4 °F)
Evaporation Rate	Not available	
Flammability of solids and gases	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1.02 kg/l	
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	

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#### 9. Physical and chemical properties ..../

Auto-ignition temperature Decomposition temperature Viscosity	Not available Not available Not available	
Explosive properties	Not available	
Oxidising properties 9.2. Other information	Not available	
VOC :	13,40 % - 136,68 g/litre	

# 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

#### 2-BUTOXYETHANOL

Decomposes under the effect of heat.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### **BENZYL ALCOHOL**

May react dangerously with: hydrobromic acid, iron, oxidising agents, sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

#### 2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### **BENZYL ALCOHOL**

Avoid exposure to: air, sources of heat, naked flames.

#### 2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

#### 10.5. Incompatible materials

**BENZYL ALCOHOL** 

Incompatible with: sulphuric acid, oxidising substances, aluminium.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### 2-BUTOXYETHANOL May develop: hydrogen.

**11. Toxicological information** 

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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#### 11. Toxicological information

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

2-BUTOXYETHANOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

405 mg/kg Rabbit 2.2 mg/l/4h Rat

615 mg/kg Rat

BENZYL ALCOHOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

1230 mg/kg Rat 2000 mg/kg Rabbit > 4.1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Carcinogenicity Assessment: 111-76-2 2-BUTOXYETHANOL ACGIH:: A3 IARC:3

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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# 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

Information not available

# 12.2. Persistence and degradability

2-BUTOXYETHANOL

Solubility in water Rapidly degradable	1000 - 10000 mg/l
BENZYL ALCOHOL Rapidly degradable	
12.3. Bioaccumulative potential	
2-BUTOXYETHANOL	
Partition coefficient: n-octanol/water	0.81
BENZYL ALCOHOL	
Partition coefficient: n-octanol/water	1.1
12.4. Mobility in soil	

Information not available

# 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Other adverse effects

Information not available

### 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

# 14.1. UN number

Not applicable

# 14.2. UN proper shipping name

Not applicable

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# BOOSTER

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#### 14. Transport information ....

#### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

# 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal Regulations

TSCA: All components are listed on TSCA Inventory.

Clean Air Act Sectio	n 112(b):			
34590-94-8	DIPROPYLENE GLYC	OL MONOMETHYL	ETHER (GI	vcol ethers

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

 EPA List of Lists:

 313 Category Code:

 34590-94-8
 DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: 34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)

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15. Regulatory information

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

# Massachussetts:

1103300110330113.	
100-51-6	BENZYL ALCOHOL
111-76-2	2-BUTOXYETHANOL
34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)
Minnesota:	
100-51-6	BENZYL ALCOHOL
111-76-2	2-BUTOXYETHANOL
34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)
New Jersey:	
111 76 0	

111-76-2 34590-94-8

2-BUTOXYETHANOL DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)

New York: No component(s) listed.

# Pennsylvania:

· • · · · · • J · · • · · • · ·	
100-51-6	BENZYL ALCOHOL
111-76-2	2-BUTOXYETHANOL
34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)

# California

California.	
111-76-2	2-BUTOXYETHANOL
34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER (Glycol ethers)

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

#### International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention: None

Candadian WHMIS Information not available

#### 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H227 H302 H312 H315 H319 H332 H302 H302	Combustible liquid. Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Harmful if swallowed.
H332	Harmful if inhaled.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)

- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)

@EPY 9.9.0 - SDS 1004.13

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#### 16. Other information

- CLP: EC Regulation 1272/2008- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

#### GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

#### Changes to previous review: The following sections were modified:

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# 16. Other information ...

02 / 03 / 04 / 07 / 10 / 11 / 12 / 15 / 16.