

Three Bond 2088E-H

Material number TB2088E-H

Page: 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: Three Bond 2088E-H

1.2 Relevant identified uses of the substance or mixture and uses advised againstGeneral use: Adhesive
For industrial purposes only**1.3 Details of the supplier of the safety data sheet**Company name: Three Bond GmbH
Street/POB-No.: Heerdter Lohweg 55
Postal Code, city: 40549 Duesseldorf
WWW: www.threebond.de
E-mail: info@threebond.de
Telephone: 0049-(0)211-530641-10
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Dept. responsible for information:
Telephone: 0049-(0)211-530641-0, Email: msds@threebond.deAdditional information: Manufacturer:
Three Bond Co., Ltd.
1456 Hazama-cho Hachioji-shi
193-8533 Tokyo, Japan
Phone +81-(0)426-61-1333
Fax: +81-(0)426-69-7235**1.4 Emergency telephone number****GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

2.2 Label elements**Labelling (CLP)**Signal word: **Danger**

Hazard statements: H314 Causes severe skin burns and eye damage.

Three Bond 2088E-H

Material number TB2088E-H

Page: 2 of 9

Precautionary statements:

P260	Do not breathe vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Special labelling

Text for labelling: Contains Polyamide amine.

2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. - CAS 30580-35-9		>= 97 %	Flam. Liq. 3; H226. Skin Corr. 1B; H314.
EC No. 202-013-9 CAS 90-72-2	2,4,6-tris (Dimethylaminomethyl)phenol	< 3 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319.

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information:	First aider: Pay attention to self-protection!
In case of inhalation:	Provide fresh air. Put victim at rest and keep warm. Immediately get medical attention.
Following skin contact:	Take off immediately all contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Immediately get medical attention. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media:

Extinguishing powder, carbon dioxide, foam

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Suppress gases/vapours/mists with water spray jet.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective equipment. Avoid contact with the substance. Provide adequate ventilation. Do not breathe vapours.

Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

Final cleaning: Wash spill area with plenty of water.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Do not breathe vapours. Avoid contact with the substance.

Wear appropriate protective equipment.

Precautions against fire and explosion:

Keep away from sources of ignition.

Take precautionary measures against static discharges.

Three Bond 2088E-H

Material number TB2088E-H

Page: 4 of 9

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 5 °C and 25 °C.

Protect from heat and direct sunlight.

Hints on joint storage: Keep away from food and drinks.

Storage class: 8A = Combustible corrosive substances

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Additional information: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment**Occupational exposure controls**

Respiratory protection: When aerosols and vapours form: Use appropriate respiratory protection.

Recommendation: Use filter type A according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: rubber or Plastic

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin and eyes.

Wash hands before breaks and after work.

Do not breathe vapours.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Work place should be equipped with a shower and an eye rinsing apparatus.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**Appearance: Form: liquid
Colour: yellowish

Odour: weak

Odour threshold: No data available

pH value: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: 158 °C

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 1/17/2018
Version: 9
Language: en-DE
Date of print: 3/6/2019

Three Bond 2088E-H

Material number TB2088E-H

Page: 5 of 9

Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: 1.03 g/mL
Water solubility:	at 20 °C: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Corr. 1B; H314 = Causes severe skin burns and eye damage.
Serious eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

SECTION 12: Ecological information

12.1 Toxicity

Water Hazard Class: 1 = slightly hazardous to water

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances.
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.

Three Bond 2088E-H

Material number TB2088E-H

Page: 7 of 9

Recommendation: Special waste. Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.
Handle contaminated packages in the same way as the substance itself.**SECTION 14: Transport information****14.1 UN number**ADR/RID, ADN, IMDG, IATA-DGR:
UN 1760**14.2 UN proper shipping name**ADR/RID, ADN: UN 1760, CORROSIVE LIQUID, N.O.S. ()
IMDG, IATA-DGR: UN 1760, CORROSIVE LIQUID, N.O.S. (Polyamide amine)**14.3 Transport hazard class(es)**ADR/RID, ADN: Class 8, Code: C9
IMDG: Class 8, Subrisk -
IATA-DGR: Class 8**14.4 Packing group**ADR/RID, ADN, IMDG, IATA-DGR:
III**14.5 Environmental hazards**

Marine pollutant - IMDG: no

14.6 Special precautions for user**Land transport (ADR/RID)**Warning board: ADR/RID: Kemmler-number 80, UN number UN 1760
Hazard label: 8
Special provisions: 274
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 - IBC03 - LP01 - R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T7
Portable tanks - Special provisions: TP1 - TP28
Tank coding: L4BN
Tunnel restriction code: E**Inland waterway craft (ADN)**Hazard label: 8
Special provisions: 274
Limited quantities: 5 L
EQ: E1
Transport permitted: T
Equipment necessary: PP - EP

Three Bond 2088E-H

Material number TB2088E-H

Page: 8 of 9

Sea transport (IMDG)

EmS: F-A, S-B
Special provisions: 223, 274
Limited quantities: 5 L
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T7
Tank instructions - Provisions: TP1, TP28
Stowage and handling: Category A. SW2
Properties and observations: Causes burns to skin, eyes and mucous membranes.
Segregation group: none

Air transport (IATA)

Hazard label: Corrosive
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special provisions: A3 A803
Emergency Response Guide-Code (ERG): 8L

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

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Germany**

Storage class: 8A = Combustible corrosive substances

Water Hazard Class: 1 = slightly hazardous to water

Information on working limitations:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information**Further information**

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.



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Three Bond 2088E-H

Material number TB2088E-H

Page: 9 of 9

Reason of change: Changes in section 2: Labelling (P-phrases: EU, ATP 8)

Date of first version: 7/16/2004

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.