

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

Product form : Mixture  
Trade name : BOSS 231  
Reference number : 146432, 167500, 167483, 167420

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Intended for general public  
Main use category : Consumer use, Professional use  
Use of the substance/mixture : Sealant/Adhesive

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Soudal  
350 Ring Road  
Elizabethtown, KY 42701  
(270) 769-3385  
[technical@soudalaccumetric.com](mailto:technical@soudalaccumetric.com) -  
[www.SoudalUSA.com](http://www.SoudalUSA.com)

**1.4. Emergency telephone number**

Emergency number : (800) 424-9300 CHEMTREC  
24h/24h

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification**

SERIOUS EYE DAMAGE/IRRITATION Category 2A  
SENSITIZATION – SKIN Category 1

**Adverse physicochemical, human health and environmental effects****2.2. Label elements**

Hazard pictograms (CLP) :



Signal word (CLP) : WARNING  
Hazard Statements (CLP) : Highly flammable liquid and vapor  
Suspected of causing cancer  
Causes serious eye irritation

# BOSS 231

## Safety Data Sheet

Precautionary statements (CLP) : Get medical advice/attention if you feel unwell.  
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 on skin: wash with plenty of soap and water.  
If skin irritation or rash occurs: get medical advice attention.  
Read label before use.  
Wash contaminated clothing before reuse.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Avoid release to environment.  
Wear eye protection/face protection.  
Wear protective gloves.  
Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Extra phrases :

### 2.3. Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Isobutyl acetate	CAS-No.: 110-19-0	73 - 35
Isopropyl acetate	CAS-No.: 108-21-4	5-8
Vinyl acetate	CAS-No.: 108-05-4	1-4

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Treat according to person's condition and specifics of exposure.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Irritation  
Symptoms/effects after skin contact : Irritation.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : None known

# BOSS 231

## Safety Data Sheet

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

Hazardous decomposition products in case of fire : carbon monoxide, carbon dioxide, silicone dioxide  
Unusual Fire and Explosion Hazards : Exposure to combustion products may be a hazard to health.

### 5.3. Advice for firefighters

Fire Fighting Procedures: Use water spray to cool unopened containers. Evacuate area. Collect contaminated fire extinguishing water separately. Do not discharge into drains. Fire residues and contaminated fire extinguisher water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Discharge into environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated water.  
Methods for cleaning up : Absorb spilled material with sand or earth. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 7, 8, 11, 12, and 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling :  
Avoid breathing vapors.  
Keep container closed.  
Use with adequate ventilation.  
Avoid contact with skin and clothing.  
Wash thoroughly after handling.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Keep container closed and stored in a cool, well-ventilated area, away from water and moisture.

### 7.3. Specific end use(s)

No additional information available

# BOSS 231

## Safety Data Sheet

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

Isobutyl acetate (110-19-0)	
ACGIH (TWA)	150 ppm
Isopropyl acetate (108-21-4)	
ACGIH (TWA)	100 ppm
Vinyl acetate (108-05-4)	
ACGIH (TWA)	10 ppm

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the workstation.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment symbol(s):



###### 8.2.2.1. Eye and face protection

###### Eye protection:

Protective goggles

###### 8.2.2.2. Skin protection

###### Skin and body protection:

Protective clothing

###### Hand protection:

Protective gloves against chemicals

###### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

###### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

# BOSS 231

## Safety Data Sheet

### SECTION 9: Physical and chemical properties

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

Physical state	: Viscous
Color	: Various
Appearance	: Smooth paste
Odor	: Slight
Odor threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Highly flammable liquid and vapors
Explosive limits	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 23 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapor pressure	: Not available
Vapor pressure at 50 °C	: < 1100 hPa
Density	: 1.1 kg/l (20°C)
Relative density	: 1.1 kg/l (20°C)
Relative vapor density at 20 °C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

##### 9.2.2. Other safety characteristics

VOC content : 372 g/mL (39%)

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Contact with incompatible materials and exposure to extreme temperatures.

#### 10.5. Incompatible materials

Oxidizing materials, bases, combustible materials, strong acids, strong bases

# BOSS 231

## Safety Data Sheet

### 10.6. Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon monoxide, carbon dioxide,

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Isobutyl acetate (110-19-0)	
LD50 oral (rat)	13,400 mg/kg
LD50 Dermal (rat)	5000 mg/kg
Isopropyl acetate (108-21-4)	
LD50 oral (rat)	6,750 mg/kg
LD50 Dermal (rabbit)	17,490 mg/kg
LD50 Inhalation (rat) (4h)	71.3 mg/L
LD50 Inhalation (rat) (4h)	17100 ppm
Vinyl acetate (108-05-4)	
LD50 oral (rat)	3,470 mg/kg
LD50 dermal (rabbit)	7,440 mg/kg
LC50 inhalation (rat)	15.81 mg/L
LC50 inhalation (rat)	4,490 ppm

### Carcinogenicity

Teratogenicity	: Not available
Mutagenicity	: Not available
Reproductive Toxicity	: Not available

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

Isobutyl acetate (110-19-0)	
EC50 Acute toxicity crustacean (48h, Daphnia Magna)	146 – 192 mg/L
EC50 Toxicity algae and other aquatic plants (Scenedesmus quadricauda)	320 mg.L
Isopropyl acetate (108-21-4)	

# BOSS 231

## Safety Data Sheet

EC50 Acute toxicity crustacean (24h, Daphnia magna)	4150 mg/L
EC50 Toxicity algae and other aquatic plants (168h, Scenedesmus quadricauda)	165 mg/L
<b>Vinyl acetate (108-05-4)</b>	
EC50 Acute toxicity crustacean (48h, Daphnia magna)	12.6 mg/L
Toxicity algae and other aquatic plants (72h, Pseudokirchneriella subcapitata)	12.7 mg/L
NOEC Long-term toxicity fish (34d, Pimephales promelas)	0.551 mg/L
LOEC Long-term toxicity fish (34d, Pimephales promelas)	0.93 mg/L

Ecotoxicity :Not hazardous to the aquatic environment.

Persistence and degradability :Not available

Bioaccumulation :Not available

Mobility :Not available

Other adverse effects :Not available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with requirements and applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing product should be done only after a careful evaluation and in compliance with all federal, local, and state laws.

### SECTION 14: Transport information

UN Number : 1133  
UN Proper Shipping Name : Adhesives  
DOT Classification : None  
Packing Group : III

### SECTION 15: Regulatory information

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

##### 15.1.1. US Federal Regulations

###### TSCA

All components of this product follow the inventory listing requirements of the US Toxic Substances and Control Act (TSCA) Chemical Substances Inventory.

**SARA 302** : None

**SARA 304** : None

###### SARA 311/312

Acute Health Hazard : Yes

Chronic Health Hazard : Yes

Fire Hazard : No

Sudden Release of Pressure Hazard : No

Reactive Hazard : No

**SARA 313** : None present or none present in reportable quantities.

##### 15.1.1. US State Regulations

###### Massachusetts

Isobutyl acetate (110-19-0)

###### Pennsylvania

Isobutyl acetate (110-19-0)

Isopropyl acetate (108-21-4)

# BOSS 231

## Safety Data Sheet

Vinyl acetate (108-05-4)

### California Prop 65

This product does not contain any chemicals known to the state of California to cause cancer, birth, or reproductive defects. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet

# BOSS 231

## Safety Data Sheet

vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

### Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation: vapor)	Acute toxicity (inhalation: vapor) Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3

### Full text of H- and EUH-statements:

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1

Disclaimer: The data contained herein is based upon information that Soudal believes to be reliable. Users of this product have the responsibility to determine suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.