Safety Data Sheet

BOSS® 635 Contact/Spray Adhesive

Section 1. Identification

Product Identifier	BOSS® 635 Contact/Spray Adhesive
Synonyms	63512; 02466TN10
Manufacturer Stock Numbers	02466TN10
Recommended use	Refer to Technical Information
Uses advised against	Refer to Technical Information

Manufacturer Contact

Address

Soudal Accumetric
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone	Emergency Phone	Fax
(270) 769-3385	(800) 424-9300 CHEMTREC	(270) 765-2412

Section 2. Hazards Identification

Classification	ASPIRATION HAZARD - Category 1 EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE AEROSOLS - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
Signal Word	Danger

Pictogram

Hazard Statements

Causes serious eye irritation
Causes skin irritation
Extremely flammable aerosol
May be fatal if swallowed and enters airways
May cause damage to organs through prolonged or repeated exposure.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
Collect spillage
Do NOT induce vomiting.
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 inhaled: Remove person to fresh air and keep comfortable for breathing.
If medical advice is needed, have product container or label at hand.
If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Immediately call a poison center/doctor.
Take off contaminated clothing and wash it before reuse.

Prevention

Avoid release to the environment
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not spray on an open flame or other ignition source.
Keep away from heat.
Pressurized container: Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 ºC/122 ºF.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local, state and federal regulations.

Ingredients of unknown toxicity

71.63%

Hazards not Otherwise Classified

Additional Information

None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
96-14-0	Methyl-3-Pentane	1% - 2.5%
115-10-6	Dimethyl ether	10% - 20%
110-54-3	Hexane	10% - 20%
	Other components below reportable levels	10% - 20%
107-83-5	2-Methyl-pentane	2.5% - 10%
67-64-1	2-Propanone	20% - 40%
74-98-6	Propane	20% - 40%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation or ill effects develop or persist.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
General information	If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazazrds arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not,

	withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazardds	Extremely flammable aerosol.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 2 Aerosol.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Methyl-3-Pentane	500 ppm	500 ppm	N/A
Dimethyl ether	N/A	400 ppm	N/A
Hexane	50 ppm	500 ppm	1000 ppm
Other components below reportable levels	N/A	N/A	N/A
2-Methyl-pentane	500 ppm	500 ppm	1000 ppm
2-Propanone	500 ppm TWA	1000 ppm TWA	750 ppm
Propane	1000 ppm TWA	1000 ppm PEL	N/A

Personal Protective Equipment

Gloves

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Dimethyl Ether (115-10-6)
STEL 2 ppm
TWA 0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Acetone (67-64-1)
PEL 2400 mg/m3
1000 ppm

n-Hexane (110-54-3)
PEL 1800 mg/m3
500 ppm

Propane (74-98-6)
PEL 1800 mg/m3
1000 ppm

US. ACGIH Threshold Limit Values
2-Methylpentane (107-83-5)
STEL 1000 ppm
TWA 500 ppm

3-Methylpentane (96-14-0)
STEL 1000 ppm
TWA 500 ppm

Acetone (67-64-1)
STEL 750 ppm
TWA 500 ppm

US. ACGIH Threshold Limit Values

Dimethyl Ether (115-10-6)
Ceiling 0.3 ppm

n-Hexane (110-54-3)
TWA 50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards
Acetone (67-64-1)
TWA 590 mg/m3
250 ppm

Dimethyl Ether (115-10-6)
Ceiling 0.1 ppm
TWA 0.016 ppm

n-Hexane (110-54-3)
TWA 180 mg/m3
50 ppm

Propane (74-98-6)
TWA 1800 mg/m3
1000 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides
Dimethyl Ether (115-10-6)
TWA 1880 mg/m3
1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Acetone (CAS 67-64-1)
Value: 50 mg/l
Determinant: Acetone
Specimen: Urine
For sampling details, please see the source document.

n-Hexane (110-54-3)
Value: 0.4 mg/l
Determinant: 2,5-Hexanedion, without hydrolysis
Specimen: Urine
For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation
n-Hexane (110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
n-Hexane (110-54-3) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment	Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

Physical State	Gas. Aerosol.
Color	Not available
Odor	Not available
Odor Threshold	Not available
Solubility	Not available
Partition coefficient Water/n-octanol	Not available
VOC%	54.0% by weight
Viscosity	Not available
Specific Gravity	0.724
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	-156F -104.4C
FP Method	Propellant estimated
Ph	Not available
Melting Point	Not available
Boiling Point	97.31F 36.28C estimated
Boiling Range	N/A
LEL	2.2
UEL	8.6
Evaporation Rate	Not available
Flammability	Not available
Decomposition Temperature	Not available

Auto-ignition Temperature	565.5F 296.39C estimated
Vapor Pressure	62 psig @ 70F estimated
Vapor Density	Not available

Note	The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure	Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects. Prolonged inhalation may be harmful. Skin contact Causes skin irritation. Eye contact Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Acute toxicity	May be fatal if swallowed and enters airways. Narcotic effects.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

Respiratory or skin sensitization	Respiratory sensitization Not available. Skin sensitization This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.
Reproductive toxicity	Suspected of damaging fertility.
Specific target organ toxicity	Single exposure May cause drowsiness and dizziness. Repeated exposure Respiratory system. Skin. Eyes. Nervous system. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.
Product toxicological information - acute	Dermal - LD50 Guinea pig 34620.0469 mg/kg, 24 Hours estimated 43.8228 ml/kg, 24 Hours estimated Rabbit 9690.1953 mg/kg, 24 Hours estimated 42.2654 ml/kg, 4 Hours estimated Rat 10815.1543 mg/kg, 24 Hours estimated Inhalation - LC100 Cat 428.5714 % estimated Inhalation - LC50 Mouse 5880.7183 mg/l estimated 247.619 %, 120 Minutes estimated 76.1905 mm/l, 2 Hours estimated Rat 35794.5742 ppm, 3 Hours estimated 35794.5742 ppm, 4 Hours estimated 1292.4708 mg/l/4h estimated 79.6211 mg/l, 7 Hours estimated Inhalation - NOEL Rat 14.2857 ppm, 6 Hours estimated

Oral - LD50
Rat
2793.9211 mg/kg estimated
9.7628 ml/kg estimated

Wistar rat
414.201 g/kg estimated

Estimates for product may be based on additional component data not shown.

Component toxicological information - acute

Acetone (CAS 67-64-1)
Dermal - LD50
Guinea pig
> 7426 mg/kg, 24 Hours
> 9.4 ml/kg, 24 Hours

Rabbit
> 7426 mg/kg, 24 Hours
> 9.4 ml/kg, 24 Hours

Inhalation - LC50
Rat
55700 ppm, 3 Hours
132 mg/l, 3 Hours
50.1 mg/l

Oral - LD50
Rat
5800 mg/kg
2.2 ml/kg

Dimethyl Ether (CAS 115-10-6)
Inhalation - NOEL
Rat
2 ppm, 6 Hours

Oral - LD50
Rat
460 mg/kg

n-Hexane (CAS 110-54-3)
Deraml - LD50
Rabbit
> 2000 mg/kg, 4 Hours
> 5 ml/kg, 4 Hours

Inhalation - LC50
Rat
> 5000 ppm, 24 Hours
> 31.86 mg/l
73860 ppm, 4 Hours

Oral - LD50
Rat

24 ml/kg
24 g/kg

Wistar rat
49 g/kg

Propane (CAS 74-98-6)
Inhalation - LC50
Mouse
1237 mg/l, 120 Minutes
52 %, 120 Minutes

Rat
1355 mg/l
658 mg/l/4h

Section 12. Ecological Information

Ecotxicity	Toxic to aquatic life with long lasting effects.
Product ecotoxicity	Aquatic - Crustacea EC50 Daphnia 91.7423 mg/l, 48 hours estimated Aquatic - Fish LC50 Fish 17.8322 mg/l, 96 hours estimated
Component ecotoxicity	Acetone (CAS 67-64-1) Aquatic - Crustacea EC50 Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours Aquatic - Fish LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours Dimethyl Ether (CAS 115-10-6) Aquatic - Crustacea EC50 Water flea (Daphnia pulex) 4.3 - 7.8 mg/l, 48 hours Aquatic - Fish LC50 Striped bass (Morone saxatilis) 10.302 - 16.743 mg/l, 96 hours n-Hexane (CAS 110-54-3) Aquatic - Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	Partition coefficient n-octanol / water (log Kow) 2-Methylpentane 3.74 3-Methylpentane 3.6 Acetone -0.24 Dimethyl Ether 0.1 n-Hexane 3.9 Propane 2.36
Mobility in soil	No data available.

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional /national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste U List: Reference	Acetone (CAS 67-64-1) U002
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

UN Number	1950
UN Proper Shipping Name	Aerosols, flammable
DOT Classification	Class 2.1 Subsidiary risk - Label(s) 2.1
Packing Group	Not applicable
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other transportation onfrmation	Special provisions N82 Packaging exceptions 306 Packaging non bulk None Packaging bulk None
Note	This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

Section 15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Acetone (CAS 67-64-1) Listed.
n-Hexane (CAS 110-54-3) Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Phenol 108-95-2
Reportable quantity: 1000
Threshold planning quantity: 500 - 10000 lbs

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
n-Hexane 110-54-3 10 - 20%
Ethyl Benzene 100-41-4 0.01 - 0.1%
Styrene 100-42-5 0.01 - 0.1%

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Dimethyl Ether (CAS 115-10-6)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)
Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Acetone (CAS 67-64-1) 6532
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number
Acetone (CAS 67-64-1) 6532

US state regulations	US Massachusetts RTK - Substance List 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) Acetone (CAS 67-64-1) Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6) US New Jersey Worker and Community Right-to-Know Act 2-Methylpentane (CAS 107-83-5) Acetone (CAS 67-64-1) Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6) US Pennsylvania Worker and Community Right-to-Know Law 2-Methylpentane (CAS 107-83-5) 3-Methylpentane (CAS 96-14-0) Acetone (CAS 67-64-1) Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6) US Rhode Island RTK Acetone (CAS 67-64-1) Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6) US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16. Other Information

Revision Date	8/12/2016
Disclaimer	The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that 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.