



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 1 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

SECTION 1: Identification

Product identifier

Product name: Truflex/Pang Super Solution

Product code: 608F/8OZ, 608F/QT, 608F/GAL, 608F/55GAL

Additional information: Rev. 11.0

Recommended use of the product and restriction on use

Relevant identified uses: Rubber adhesive

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Tech International

200 East Coshocton Street

Johnstown, OH 43031

1-740-967-9015

Emergency telephone number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1-703-527-3887

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 2

Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, central nervous system

Skin irritation, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor

H317 May cause an allergic skin reaction

H336 May cause drowsiness or dizziness

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 2 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

H315 Causes skin irritation

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P271 Use only outdoors or in a well-ventilated area

P264 Wash skin thoroughly after handling

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower

P370+P378 In case of fire: Use agents recommended in section 5 for extinction

P321 Specific treatment (see supplemental first aid instructions on this label).

P302+P352 If on skin: Wash with soap and water

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P403+P235 Store in a well ventilated place. Keep cool.

P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 9003-31-0	Natural Rubber	2-8
CAS number: 136-23-2	Zinc Bis(dibutyldithiocarbamate)	1-2.4
CAS number: 110-82-7	Cyclohexane	<1.5
CAS number: 64742-89-8	Light Aliphatic Naphtha	75-95
CAS number: 5459-93-8	N-Ethylcyclohexylamine	<1
CAS number: 142-82-5	Heptane	10-30
CAS number: 110-54-3	n-Hexane	<0.02

Additional Information:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 3 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 4 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

May form corrosive mixtures with water

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Natural Rubber	9003-31-0	ACGIH TLV TWA: 0.0001 mg/m ³ , inhalable fraction

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 5 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Heptane	142-82-5	ACGIH TLV TWA: 400 ppm
	Heptane	142-82-5	15-minute Short term exposure limit: 1000 mg/m ³
	Cyclohexane	110-82-7	ACGIH TLV TWA: 100 ppm
	n-Hexane	110-54-3	ACGIH TLV TWA 50 ppm
NIOSH	Light Aliphatic Naphtha	64742-89-8	IDLH: 1000 ppm [Naphtha (Coal tar)]
	Light Aliphatic Naphtha	64742-89-8	REL (for up to a 10-hour workday during a 40-hour workweek): 100 ppm (400 mg/m ³) [Naphtha (Coal tar)]
	Heptane	142-82-5	NIOSH TWA: 350 mg/m ³ (85 ppm)
	Cyclohexane	110-82-7	NIOSH REL TWA 300 ppm
	Cyclohexane	110-82-7	NIOSH REL TWA 1050 mg/m ³
	n-Hexane	110-54-3	NIOSH REL TWA 50 ppm
	n-Hexane	110-54-3	NIOSH REL TWA 180 mg/m ³
United States (OSHA)	Light Aliphatic Naphtha	64742-89-8	PEL 100 ppm (400 mg/m ³)
	Heptane	142-82-5	OSHA PEL TWA: 500 ppm
	Heptane	142-82-5	OSHA PEL TWA 2,000 mg/m ³
	Cyclohexane	110-82-7	OSHA PEL TWA 300 ppm
	Cyclohexane	110-82-7	OSHA PEL TWA 1050 mg/m ³
	n-Hexane	110-54-3	OSHA PEL TWA 500 ppm
	n-Hexane	110-54-3	OSHA PEL TWA 1,800 mg/m ³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

For continuous contact we recommend nitrile gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified.

Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Always seek advice from glove suppliers.

Respiratory protection:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 6 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Tan viscous liquid
Odor	Strong solvent
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	200-240 °F (93.3-115.6 °C)
Flash point (closed cup)	19.4 °F (-7 °C)
Evaporation rate	3.5 (n-BuAC=1)
Flammability (solid, gas)	Liquid
Upper flammability/explosive limit	8
Lower flammability/explosive limit	1.3
Vapor pressure	40 mmHg @ 20°C
Vapor density	> 1.0 (Air = 1.0)
Density	Not determined or not available.
Relative density	0.74 g/cm ³ (6.22 lbs./gal) @ 20°C
Solubilities	Soluble in most organic solvents.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	~ 400 cps @ 25°C
Kinematic viscosity	>200 mm ² /sec @ 40°C
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

VOC Content	5.72 lbs./gal (685.4 g/L)
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SECTION 10: Stability and reactivity

Reactivity:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 7 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Excess heat, ignition source or flames.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
N-Ethylcyclohexylamine	oral	LD50: Rat - 590 mg/kg

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
N-Ethylcyclohexylamine	Corrosive to the skin.
Zinc Bis(dibutyldithiocarbamate)	Irritating to the skin.
Heptane	Causes skin irritation
Cyclohexane	May cause skin irritation.
n-Hexane	Causes skin irritation.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Zinc Bis(dibutyldithiocarbamate)	Irritating effect on the eyes.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 8 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

Name	Result
Zinc Bis(dibutyldithiocarbamate)	Sensitization possible through skin contact.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Light Aliphatic Naphtha	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

International Agency for Research on Cancer (IARC):

Name	Classification
Natural Rubber	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data:

No data available.

Substance data:

Name	Result
Light Aliphatic Naphtha	The classification as a mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Reproductive toxicity

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

Product data:

No data available.

Substance data:

Name	Result
n-Hexane	Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment: May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
Zinc Bis(dibutyldithiocarbamate)	Component affects the respiratory system.
Cyclohexane	May cause drowsiness or dizziness.
n-Hexane	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 9 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

Product data:

No data available.

Substance data:

Name	Result
n-Hexane	Specific Target Organ Toxicity, Repeated Exposure - May cause damage to the nervous system through prolonged or repeated exposure via inhalation.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Zinc	EC50 - Daphnia magna - 0.74 mg/L - 48 hr
Bis(dibutylthiocarbamate)	NOEC - Daphnia magna - 0.0032 mg/L - 21 d
Heptane	LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h
	EC50 - Daphnia magna - 82.5 mg/L - 96 h
Cyclohexane	Pimephales promelas (fathead minnow) - 4.53 mg/l
	Daphnia magna (Water flea) - 0.9 mg/l - 48 h
	Pseudokirchneriella subcapitata (green algae) - 3.4 mg/l - 72 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 10 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution



SECTION 13: Disposal considerations

Disposal methods:



It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information



United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant Zinc Bis(dibutyldithiocarbamate), Heptane, Cyclohexane
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant Zinc Bis(dibutyldithiocarbamate), Heptane, Cyclohexane
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant Zinc Bis(dibutyldithiocarbamate), Heptane, Cyclohexane
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

9003-31-0	Natural Rubber	Listed
142-82-5	Heptane	Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 11 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

142-82-5	Heptane	Not Listed
110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Light Aliphatic Naphtha	Not Listed
5459-93-8	N-Ethylcyclohexylamine	Not Listed
136-23-2	Zinc Bis(dibutyldithiocarbamate)	Not Listed
9003-31-0	Natural Rubber	Not Listed

CERCLA:

110-82-7	Cyclohexane	Listed	1,000
110-54-3	n-Hexane	Listed	5,000

RCRA:

110-82-7	Cyclohexane	Listed	U056
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Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

142-82-5	Heptane	Listed
110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Light Aliphatic Naphtha	Not Listed
5459-93-8	N-Ethylcyclohexylamine	Listed
136-23-2	Zinc Bis(dibutyldithiocarbamate)	Not Listed
9003-31-0	Natural Rubber	Not Listed

New Jersey Right to Know:

142-82-5	Heptane	Listed
110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Light Aliphatic Naphtha	Not Listed
5459-93-8	N-Ethylcyclohexylamine	Listed
136-23-2	Zinc Bis(dibutyldithiocarbamate)	Not Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.01.2018

Page 12 of 12

Revision date: 06.29.2018

Truflex/Pang Super Solution

9003-31-0	Natural Rubber	Not Listed
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New York Right to Know:

142-82-5	Heptane	Listed
110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Light Aliphatic Naphtha	Not Listed
5459-93-8	N-Ethylcyclohexylamine	Not Listed
136-23-2	Zinc Bis(dibutyldithiocarbamate)	Not Listed
9003-31-0	Natural Rubber	Not Listed

Pennsylvania Right to Know:

142-82-5	Heptane	Listed
110-82-7	Cyclohexane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Light Aliphatic Naphtha	Not Listed
5459-93-8	N-Ethylcyclohexylamine	Listed
136-23-2	Zinc Bis(dibutyldithiocarbamate)	Not Listed
9003-31-0	Natural Rubber	Not Listed

California Proposition 65: Δ WARNING: This product can expose you to n-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 1-3-0

HMIS: 1-3-0

Initial preparation date: 05.01.2018

Revision date: 06.29.2018

End of Safety Data Sheet