Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.26.2018

Revision date: 06.29.2018

Pangit A Compound

SECTION 1: Identification

Product identifier

Product name: Pangit A Compound
Product code: 110FPA, 120FPA
Additional information: Rev 3.0

Recommended use of the product and restriction on use

Relevant identified uses: Rubber filler
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
Chronic aquatic hazard, category 2
Eye irritation, category 2A
Skin irritation, category 2
Skin sensitization, category 1
Aspiration hazard, category 1
Specific target organ toxicity - single exposure, category 3, central nervous system
Specific target organ toxicity - repeated exposure, category 2
Reproductive toxicity, category 2
Acute aquatic hazard, category 2

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H361 Suspected of damaging fertility or the unborn child.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
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.
P273 Avoid release to the environment.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P201 Obtain special instructions before use.
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
P302+P352 If on skin: Wash with soap and water.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P391 Collect spillage.
P331 Do not induce vomiting.
P308+P313 If exposed or concerned: Get medical advice/attention.
P301+P310 If swallowed: Immediately call a poison center or doctor/physician.
P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
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.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Pangit A Compound

Identification	Name	Weight %
CAS number: 9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	30-40
CAS number: 471-34-1	Calcium Carbonate	13-17
CAS number: 108-88-3	Toluene	35-40
CAS number: 136-23-2	Zinc bis(dibutyldithiocarbamate)	1.75-2.25
CAS number: 57-11-4	Stearic acid	0.2-0.5
CAS number: 5459-93-8	Cyclohexyl(ethyl)amine	1-1.5
CAS number: 64742-52-5	Hydrotreated heavy naphthenic distillates	0.5-1.5
CAS number: 1314-13-2	Zinc oxide	2-2.5
CAS number: 68610-06-0	Phenol, isobutylenated	0.5-1

Additional Information:

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:

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 eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

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:

Do not use a water stream as an extinguisher

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

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	1,3-Butadiene, 2-methyl-, homopolymer	9003-31-0	ACGIH TLV TWA: 0.0001 mg/m³, inhalable fraction
	Stearic acid	57-11-4	ACGIH TLV: 10 mg/m³ (as stearates)
	Zinc oxide	1314-13-2	ACGIH TLV TWA: 2.0 mg/m³
	Zinc oxide	1314-13-2	ACGIH TLV TWA: 10.0 mg/m³
	Toluene	108-88-3	ACGIH TWA: 20 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour Exposure Limit (TLV-TWA): 5 mg/m³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Stearic acid	57-11-4	8-Hour Exposure Limit (TLV-TWA): 10 mg/m³ [Stearates (except stearates of toxic metals), Inhalable fraction]
	Stearic acid	57-11-4	8-Hour Exposure Limit (TLV-TWA): 3 mg/m³ [Stearates (except stearates of toxic metals), Respirable fraction]
United States (OSHA)	Toluene	108-88-3	OSHA PEL 300 ppm Ceiling
	Toluene	108-88-3	OSHA PEL TWA 200 ppm
	Toluene	108-88-3	OSHA PEL 500 ppm Peak (10 mins)
	Zinc oxide	1314-13-2	OSHA PEL TWA 15 mg/m³ (Total dust)
	Zinc oxide	1314-13-2	OSHA PEL TWA 5 mg/m³ (Respirable fraction)
	Calcium Carbonate	471-34-1	OSHA TWA: 15 mg/m³ (Total dust)

Pangit A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Carbonate	471-34-1	OSHA TWA: 5 mg/m³ (Respirable fraction)
	Zinc oxide	1314-13-2	OSHA PEL TWA 5 mg/m³ (Fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PEL: 5 mg/m³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PEL: 500 ppm (2000 mg/m³) [Petroleum Distillates (Naphtha) (Rubber Solvent)]
NIOSH	Zinc oxide	1314-13-2	NIOSH REL TWA 5.0 mg/m³; C 15 mg/m³ (Dust)
	Zinc oxide	1314-13-2	NIOSH REL TWA 5.0 mg/m³; ST 10 mg/m³ (Fume)
	Calcium Carbonate	471-34-1	NIOSH REL: 10 mg/m³ (Total)
	Calcium Carbonate	471-34-1	NIOSH REL: 5 mg/m³ (Respirable)
	Toluene	108-88-3	NIOSH TWA 375.0 mg/m³; 100 ppm
	Toluene	108-88-3	NIOSH STEL 560 mg/m³; 150 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	IDLH: 2500 mg/m³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	REL (for up to a 10-hour workday during a 40-hour workweek): 5 mg/m³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	REL (for up to a 10-hour workday during a 40-hour workweek): 350 mg/m³ [Petroleum distillates (Naphtha)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	STEL: 10 mg/m³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling (15-minute time period): 1800 mg/m³ [Petroleum distillates (Naphtha)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	IDLH: 1100 ppm [Petroleum distillates (Naphtha)]

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.
Wear appropriate clothing to prevent any possibility of skin contact.
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.

Respiratory protection:

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 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.
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.

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 Putty
Odor	Strong Solvent
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-95°C
Initial boiling point/range	232°F
Flash point (closed cup)	7°C (44.6°F)
Evaporation rate	2.24
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	7.1
Lower flammability/explosive limit	1.1
Vapor pressure	22 mmHg
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.04
Solubilities	Not determined or not available.
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	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:
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:
None known.

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
Cyclohexyl(ethyl)amine	oral	LD50: Rat - 590 mg/kg

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Zinc bis(dibutyldithiocarbamate)	Irritating to the skin.
Phenol, isobutylenated	Corrosive to the skin.
Cyclohexyl(ethyl)amine	Corrosive to the skin.
Toluene	Irritating to the skin.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

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:

Name	Result
Zinc bis(dibutyldithiocarbamate)	Sensitization possible through skin contact.
Phenol, isobutylenated	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
Distillates (petroleum), hydrotreated heavy naphthenic	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

International Agency for Research on Cancer (IARC):

Name	Classification
1,3-Butadiene, 2-methyl-, homopolymer	Group 3 - Not classifiable as to its carcinogenicity to humans
Toluene	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: No data available.

Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Toluene	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.
Toluene	Component affects the central nervous system.

Specific target organ toxicity (repeated exposure)

Assessment: May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

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: Toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
Zinc oxide	Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h
	Daphnia magna (Water flea) - 0.098 mg/l - 48 h
Zinc bis(dibutyldithiocarbamate)	EC50 - Daphnia magna - 0.74 mg/L - 48 hr
	NOEC - Daphnia magna - 0.0032 mg/L - 21 d

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.

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	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None
EmS number	F-E, S-E
Excepted quantities	E2
Limited quantity	1L

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

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None
Excepted quantities	E2
Limited quantity	1L

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Listed
471-34-1	Calcium Carbonate	Listed

1314-13-2	Zinc oxide	Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Listed
68610-06-0	Phenol, isobutylenated	Listed
5459-93-8	Cyclohexyl(ethyl)amine	Listed
108-88-3	Toluene	Listed
64742-52-5	Hydrotreated heavy naphthenic distillates	Listed
57-11-4	Stearic acid	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:

1314-13-2	Zinc oxide	Listed
108-88-3	Toluene	Listed
9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
471-34-1	Calcium Carbonate	Not Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Not Listed
57-11-4	Stearic acid	Not Listed
5459-93-8	Cyclohexyl(ethyl)amine	Not Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Not Listed
68610-06-0	Phenol, isobutylenated	Not Listed

CERCLA:

108-88-3	Toluene	Listed	1000

RCRA:

108-88-3	Toluene	Listed	U220

Section 112(r) of the Clean Air Act (CAA):

108-88-3	Toluene	Listed

Massachusetts Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
471-34-1	Calcium Carbonate	Listed
108-88-3	Toluene	Not Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Not Listed
57-11-4	Stearic acid	Not Listed
5459-93-8	Cyclohexyl(ethyl)amine	Not Listed

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1314-13-2	Zinc oxide	Listed
68610-06-0	Phenol, isobutylenated	Not Listed

New Jersey Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
471-34-1	Calcium Carbonate	Listed
108-88-3	Toluene	Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Not Listed
57-11-4	Stearic acid	Not Listed
5459-93-8	Cyclohexyl(ethyl)amine	Not Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1314-13-2	Zinc oxide	Listed
68610-06-0	Phenol, isobutylenated	Not Listed

New York Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
471-34-1	Calcium Carbonate	Not Listed
108-88-3	Toluene	Not Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Not Listed
57-11-4	Stearic acid	Not Listed
5459-93-8	Cyclohexyl(ethyl)amine	Not Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Not Listed
1314-13-2	Zinc oxide	Listed
68610-06-0	Phenol, isobutylenated	Not Listed

Pennsylvania Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
471-34-1	Calcium Carbonate	Listed
108-88-3	Toluene	Listed
136-23-2	Zinc bis(dibutyldithiocarbamate)	Not Listed
57-11-4	Stearic acid	Not Listed

Pangit A Compound

5459-93-8	Cyclohexyl(ethyl)amine	Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1314-13-2	Zinc oxide	Listed
68610-06-0	Phenol, isobutylenated	Not Listed

California Proposition 65: ⚠WARNING: This product can expose you to Toluene, 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: 2-2-0

HMIS: 2-2-0

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End of Safety Data Sheet