



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

1. IDENTIFICATION

Product identifier

Product name PENKOTE SAFEGARD

Other means of identification

Product Code(s) 083947

Number 85B

Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses penetrating. Lubricant.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300
Emergency telephone +1 866 928 0789 (24h/24, 7d/7)
+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Flammable aerosols - Category 1
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2
Aspiration toxicity - Category 1

Label elements



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3



DANGER

Extremely flammable aerosol
 Causes skin irritation
 Causes serious eye irritation
 May be fatal if swallowed and enters airways

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Do not spray on an open flame or other ignition source
 Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention

Skin

If skin irritation occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

None known

Other information

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

Environmental properties

Should not be released into the environment.

SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

Chemical Name	CAS-No	Weight %
Stoddard solvent	8052-41-3	70-75
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	10-15
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts	93820-55-4	1-5
1,2,4-Trimethylbenzene	95-63-6	<2

** The exact percentage (concentration) of composition has been withheld as a trade secret*

4. FIRST AID MEASURES**First aid measures for different exposure routes**

General advice	If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Remove from exposure, lie down.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Inhalation	If not breathing, give artificial respiration. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or doctor immediately. Risk of product entering the lungs on vomiting after ingestion. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

Ingestion May be fatal if swallowed and enters airways.

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Difficulty breathing. Coughing and/ or wheezing. Itching.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Cool containers / tanks with water spray. Foam. Carbon dioxide (CO₂). ABC powder.

Uniform Fire Code Aerosols: Level III
Blasting Agents

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Special Hazard Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

General Information Remove all sources of ignition. Use personal protective equipment. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Heat, flames and sparks. Ensure adequate ventilation.

Other information See Section 12 for additional information.

Environmental precautions

General Information Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Most vapors are heavier than air. They will spread along ground and collect

SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for cleaning up

Dam up. Ground and bond containers when transferring material. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Use mechanical means such as pumps, skimmers and absorbent materials. Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. When using, do not eat, drink or smoke. For personal protection see section 8. Avoid contact with skin, eyes and clothing. There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth.

Prevention of fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). **OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION)**. Do not use compressed air for filling, discharging or handling. Empty containers may contain flammable or explosive vapors.

Hygiene measures

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to Avoid

Strong oxidizing agents.

SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Stoddard solvent 8052-41-3	TWA 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ TWA: 350 mg/m ³ Ceiling: 1800 mg/m ³
1,2,4-Trimethylbenzene 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m ³

Exposure controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Eye/Face Protection

If splashes are likely to occur, wear: Face-shield. Goggles.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Protective gloves. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

a precaution. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance		limpid	
Color		clear light yellow	
Physical State @20°C		Aerosol	
Odor		Solvent	
Odor Threshold		No information available	
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range	< -18 °C < 0 °F		
Boiling point/boiling range	152 - 202 °C 306 - 396 °F		
Flash point	>= 37.7 °C >= 100 °F		ASTM D 92 Tag closed cup ASTM D 92. Tag closed cup.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure	< 13.3 hPa	@ 25 °C	
Vapor density	5	(Air = 1)	
Relative density	0.822	@ 15 °C	ASTM D 1298
Density	822 kg/m ³	@ 15 °C	ASTM D 1298
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	254 °C 489 °F		
Decomposition temperature		No information available	
Viscosity, kinematic	2 mm ² /s	@ 38 °C	ASTM D 445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		
Other information			
Specific Gravity	0.822	@ 15 °C	ASTM D 1298
Freezing Point		No information available	

10. STABILITY AND REACTIVITY



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks. Heating in air. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Principle Routes of Exposure**

Inhalation, Ingestion, Eye contact, Skin contact.

Symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Difficulty breathing. Coughing and/ or wheezing. Itching.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Inhalation

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion

May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Acute toxicity - Product Information****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

Oral**ATEmix (oral)**

7983 mg/kg

Dermal**ATEmix (dermal)**

14270 mg/kg

Inhalation**ATEmix (inhalation-dust/mist)**

20.6 mg/l

ATEmix (inhalation-vapor)

684.6 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	

SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

64742-53-6			
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts 93820-55-4		LD50 > 5000 mg/kg (Rabbit - OECD 402)	LC50(4h) > 1.9 mg/l (Rat - aerosol)
1,2,4-Trimethylbenzene 95-63-6	LD50 > 2000 mg/kg (Rat)	LD50 2201 mg/kg (Rabbit)	LC50 (4h) 10.2 mg/l (Rat)

Sensitization Not classified as a sensitizer. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Carcinogenicity This product is not classified carcinogenic.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6				-

Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.
Aspiration Hazard May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6		LC50 (96h) > 5000 mg/L Oncorhynchus mykiss ()	EC50 (48h) > 1000 mg/L Daphnia magna	
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts 93820-55-4	EC50(72h) > 1000 mg/l (Selenastrum capricornutum - static)	LL50(96h) > 10000 m/l WAF (Cyprinodon variegatus - static - OECD203)	EC50(48h) > 1000 mg/l (Daphnia magna - static)	
1,2,4-Trimethylbenzene 95-63-6		LC50 (96h) 7.19-8.28 mg/L Pimephales promelas (flow-through)	EC50 (48h) 1.6-8.3 mg/l Daphnia magna static (OECD 202)	

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
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SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

		other aquatic invertebrates		microorganisms
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts 93820-55-4	NOEC(72h) 1000 mg/l (Selenastrum capricornutum - static)			

Effects on terrestrial organisms No experimental data available .

Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information

Chemical Name	log Pow
1,2,4-Trimethylbenzene 95-63-6	3.63

Mobility

Soil No information available

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated packaging Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.

US EPA Waste Number D001

14. TRANSPORT INFORMATION



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

DOT

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
Special Provisions	N82
Description	UN1950, AEROSOLS, 2.1
Emergency Response Guide Number	126

TDG

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
Special Provisions	80, 107
Description	UN1950, AEROSOLS, 2.1

MEX

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
Special Provisions	190, 277, 327, 344, 63
Description	UN1950, AEROSOLS, 2.1

ICAO/IATA

UN/ID No	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	2.1
Special Provisions	A145, A167, A802
Description	UN1950, Aerosols, flammable, 2.1
Excepted Quantity	E0
Limited quantity	30 kg G

IMDG/IMO

UN/ID No	UN1950
Proper shipping name	Aerosols
Hazard class	2.1
Subsidiary hazard class	2
EmS No.	F-D, S-U
Special Provisions	63, 190, 277, 327, 344, 959
Description	UN1950, Aerosols (Stoddard solvent, 1,2,4-Trimethylbenzene), 2.1 (2)
Excepted Quantity	E0
Limited quantity	See SP63

ADR/RID

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2
Classification Code	5F
Tunnel Restriction Code	D
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

ADN

UN/ID No	UN1950
Proper shipping name	Aerosols
Hazard class	2
Classification Code	5F
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2
Hazard Labels	2.1
Limited quantity	1 L
Ventilation	VE01, VE04

15. REGULATORY INFORMATION

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
1,2,4-Trimethylbenzene	95-63-6	1.49	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21

Revision Date: 2016-06-08

Version 3

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Stoddard solvent 8052-41-3	X	X	X	
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	X			
1,2,4-Trimethylbenzene 95-63-6	X	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 2	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2016-06-08
Revision Note (M)SDS sections updated 2 14

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

Legend



SDS # : 083947

PENKOTE SAFEGARD

Date of the previous version: 2015-10-21**Revision Date: 2016-06-08****Version 3**

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet