



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

1. IDENTIFICATION

Product identifier

Product name PENKOTE

Other means of identification

Product Code(s) 083473

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 CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids - Category 3
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2
Aspiration toxicity - Category 1

Label elements

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2



DANGER

Flammable liquid and vapor
 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
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge

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
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse

Ingestion

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

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

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

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

Other information

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

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

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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.
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

<u>Suitable Extinguishing Media</u>	Cool containers / tanks with water spray. Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol-resistant foam. Foam. ABC powder.
Small Fires	Fire blanket.
Uniform Fire Code	Combustible Liquid: II Irritant: Liquid Other Health Hazard: Target Organ Toxin--Liquid Other Health Hazard: Carcinogen--Liquid (Note 5) Blasting Agents Highly Toxic: Liquid
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.
<u>Special Hazard</u>	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.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective Equipment and Precautions for Firefighters</u>	DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. Wear fire/ flame resistant/retardant clothing. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid any skin contact. Evacuate non-essential personnel. Pay special attention to tire fires as re-ignition may occur. Stand with extinguisher ready.

6. ACCIDENTAL RELEASE MEASURES

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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 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.

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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.

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.

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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 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	liquid
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	

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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

<u>Reactivity</u>	No information available.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Conditions to Avoid</u>	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.
<u>Incompatible Materials</u>	Strong oxidizing agents.
<u>Hazardous Decomposition Products</u>	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.

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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 64742-53-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
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

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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 other aquatic invertebrates	Toxicity to fish	Toxicity to 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**

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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**DOT**

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Special Provisions	B1, B52, IB3, T4, TP1, TP29
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III
Emergency Response Guide Number	128

TDG

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Special Provisions	16
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III

MEX

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Special Provisions	223, 274
Packing Group	III
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III

ICAO/IATA

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

UN/ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard class	3
Packing Group	III
Special Provisions	A3
Description	UN1993, Flammable liquid, n.o.s. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III

IMDG/IMO

UN/ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard class	3
Packing Group	III
EmS No.	F-E, S-E
Special Provisions	223, 274, 955
Description	UN1993, Flammable liquid, n.o.s. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III
Excepted Quantity	E1
Limited quantity	5 L

ADR/RID

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Classification Code	F1
Tunnel Restriction Code	(D/E)
Special Provisions	274, 601, 640E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III, (D/E)

ADN

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Classification Code	F1
Special Provisions	274, 601, 640E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, 1,2,4-Trimethylbenzene), 3, III
Hazard Labels	3
Limited quantity	5 L
Ventilation	VE01

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:

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

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

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

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

<u>NFPA</u>	Health Hazard 2	Flammability 2	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	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:	2016-01-14
Revision Note	*** Indicates updated section
Abbreviations, acronyms	<p>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</p>

Legend	<p>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</p>
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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.

Version GNAM



SDS # : 083473

PENKOTE

Date of the previous version: 2015-10-13

Revision Date: 2016-01-14

Version 2

End of the safety data sheet

Version GNAM