

Armor Kote 2000

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : *Armor Kote 2000*
 Manufacturer Product Number : *2000-5*
 Other Manufacturer Ids : *2000-55*

1.2 Other Means of Identification

Other Identifiers : *5 Gallon*

1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : *Long term indoor/outdoor storage protector*
 Restrictions on Use : *None Identified*

1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name	<i>Chem-Pak Inc</i>	<i>Chem-Pak Inc</i>
Address	<i>242 Corning Way, Martinsburg, WV 25405 - United States</i>	<i>242 Corning Way, Martinsburg, WV 25405 - United States</i>
Phone Number	<i>304-262-1880</i>	<i>304-262-1880</i>
Fax Number	<i>304-262-9643</i>	<i>304-262-9643</i>
Email	<i>msds@chem-pak.com</i>	<i>msds@chem-pak.com</i>
Website	<i>http://www.chem-pak.com</i>	<i>http://www.chem-pak.com</i>

1.5 24 hr Emergency Phone Number

Emergency Number : *800-255-3924*
Chem-Tel

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

<i>Flam. Liq. 3</i>	<i>H226</i>	<i>Physical Hazards</i>	<i>Flammable liquids Category 3</i>
<i>Asp. Tox. 1</i>	<i>H304</i>	<i>Health Hazards</i>	<i>Aspiration hazard Category 1</i>
<i>Aquatic Acute 2</i>	<i>H401</i>	<i>Environmental Hazards</i>	<i>Hazardous to the aquatic environment - Acute Hazard Category 2</i>
<i>Aquatic Chronic 3</i>	<i>H412</i>	<i>Environmental Hazards</i>	<i>Hazardous to the aquatic environment - Chronic Hazard Category 3</i>

2.2 Label Elements

Hazard Pictograms



GHS02



GHS08

Signal Word

Danger

Hazard Statements

H226 : *Flammable liquid and vapour*
H304 : *May be fatal if swallowed and enters airways*
H401 : *Toxic to aquatic life*
H412 : *Harmful to aquatic life with long lasting effects*

Precautionary Statements

P210 : *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P233 : *Keep container tightly closed.*
P240 : *Ground/Bond container and receiving equipment*



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- P241 : Use explosion-proof electrical/ventilating/lighting equipment
P242 : Use only non-sparking tools.
P243 : Take precautionary measures against static discharge.
P273 : Avoid release to the environment.
P280 : Wear protective gloves and eye protection.
P301+P310 : If swallowed: Immediately call POISON CENTER
P303+P361+P353 : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P331 : Do NOT induce vomiting.
P370+P378 : In case of fire: Use water, CO₂, dry chemical, or universal aqueous film forming foam to extinguish.
P403+P235 : Store in a well-ventilated place. Keep cool.
P405 : Store locked up.
P501 : Dispose of contents/container to local regulations

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown acute toxicity

- 13.26% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
53.91% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
72.91% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : Mixture

3.2 Composition

Substance name	CAS Number	% wt*	Classification
Stoddard Solvent	8052-41-3	30 - 60	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Solvent-Dewaxed Heavy Paraffinic Petroleum Distillate	64742-65-0	5 - 30	Asp. Tox. 1, H304
Hydrotreated Heavy Naphthenic Distillate	64742-52-5	10 - 30	Asp. Tox. 1, H304
Hydrotreated Light Petroleum Distillate	64742-47-8	1 - 5	Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

- General Measures : Call a physician immediately.
Inhalation : Remove person to fresh air and keep comfortable for breathing.
Skin Contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
Eye Contact : Rinse eyes with water as a precaution.
Ingestion : Do NOT induce vomiting. Call a physician immediately.
First-Aid Responder Protection : Wear adequate personal protective equipment based on the nature and severity of the emergency.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms of Exposure : None Identified.
Delayed Effects : No known delayed effects.
Immediate Effects : No known immediate effects.
Chronic Effects : No known chronic effects.
Target Organs : None Identified.



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4.3 Indication of Immediate Medical Attention and Special Treatment

- Notes to Physician : *Treat symptomatically.*
Specific Treatments/Antidotes : *No Information Available.*
Medical Conditions Aggravated : *May aggravate personnel with pre-existing disorders associated with any of the Target Organs.*

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

- Extinguishing Media : *Water, carbon dioxide, dry chemical, universal aqueous film forming foam.*
Unsuitable Media : *Water jet.*

5.2 Specific Hazards Arising from the Chemical or Mixture

- Hazardous Combustion Products : *Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.*
Specific Hazards During Firefighting : *Flammable. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to an ignition source.*

5.3 Special Protective Actions for Fire-Fighters

- Firefighting Instructions : *Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure.*
Protection during Firefighting : *Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.*

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- For Non-Emergency Personnel : *No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.*
For Emergency Personnel : *Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.*

6.2 Environmental Precautions

- Environmental Precautions : *Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.*

6.3 Methods and Materials for Containment and Cleaning up

- Containment Procedures : *Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.*
Cleanup Procedures : *Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*
Other Information : *The North American Emergency Response Guidebook or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.*
Prohibited Materials : *Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.*

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- General Handling Precautions : *KEEP OUT OF THE REACH OF CHILDREN. When using in spray application, conformance to NFPA 33 Spray Application using Flammable and Combustible Materials is recommended.*
Hygiene Recommendations : *Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.*

7.2 Conditions for Safe Storage Including Any Incompatibilities

- Storage Requirements : *Storage of flammable materials should conform to NFPA 30 Flammable and Combustible Liquid. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition.*
Incompatibilities : *Segregate storage away from materials indicated in Section 10.*



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Stoddard Solvent (8052-41-3)

ACGIH	ACGIH TWA (mg/m ³)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	2900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
California	California PEL (TWA) (mg/m ³)	525 mg/m ³
California	California PEL (TWA) (ppm)	100 ppm

Hydrotreated Light Petroleum Distillate (64742-47-8)

California	California PEL (TWA) (mg/m ³)	5 mg/m ³
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Hydrotreated Heavy Naphthenic Distillate (64742-52-5)

ACGIH	ACGIH TWA (ppm)	5 mg/m ³ Oil Mist
OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³ Oil Mist
California	California PEL (TWA) (mg/m ³)	5 mg/m ³

Solvent-Dewaxed Heavy Paraffinic Petroleum Distillate (64742-65-0)

ACGIH	ACGIH TWA (ppm)	5 mg/m ³ Oil Mist
OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³ Oil Mist
California	California PEL (TWA) (mg/m ³)	5 mg/m ³

8.2 Exposure Controls

- Engineering Measures** : Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.
- Personal Protective Equipment**
- Eye / Face Protection** : Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.
 - Hand Protection** : Chemical-resistant gloves, tested according to ASTM F903-17.
 - Remarks** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.
 - Skin and Body Protection** : For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.
 - Respiratory Protection** : An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.
 - Compliance** : If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.
 - Other Protective Equipment** : Safety showers and eye-wash stations should be available in the workplace near where the material will be used.
- Environmental Exposure Controls** : Avoid release to the environment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	> 149.00 °C	Melting / Freezing Point	> -66.11 °C
Flash Point, Liquid	> 40.00 °C		
Explosive Limits	LEL: 0.60 UEL: 10.00 vol %	Autoignition Temperature, Liquid	> 190.00 °C
Flammability	Flammable Liquid	Density	0.850 g/cm ³
Molecular Weight	Not Available	Weight	7.093 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBAC=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Liquid	Heat Of Combustion	Not Available



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Appearance / Color	Amber	Water Solubility	Not Available
Odor	Solvent	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	45.46 % wt	VOC Regulatory	363.18 g/L (3.03 lbs/gal)
Percent VOC	40.65 % wt	VOC Actual	345.52 g/L (2.88 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	0.00 GWP	Maximum Incremental Reactivity	0.8270 g O3/g
Ozone Depletion Potential	0.00 ODP		

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

10.2 Chemical Stability

Chemical Stability : This product is stable.

10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

10.4 Conditions to Avoid

Conditions to Avoid : Other Ignition Sources, Heat, Flames, Sparks.

10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Strong Acids, Magnesium, Strong Bases.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Stoddard Solvent (CAS: 8052-41-3 / EC: 232-489-3)

LD50 Oral (Rat) : > 5000 mg/kg (RTECS)

Hydrotreated Light Petroleum Distillate (CAS: 64742-47-8 / EC: 265-149-8)

LD50 Oral (Rat) : > 5000 mg/kg (ExxonMobil SDS)

LD50 Dermal (Rabbit) : > 5000 mg/kg (ExxonMobil SDS)

LC50 Inhalation (Rat) : > 5000 mg/kg (ExxonMobil SDS)

Hydrotreated Heavy Naphthenic Distillate (CAS: 64742-52-5 / EC: 265-156-6)

LD50 Oral (Rat) : > 5000 mg/kg (ChemInfo)

LD50 Dermal (Rabbit) : > 2000 mg/kg (ChemInfo)

LC50 Inhalation (Rat) : 2180 ml/m³

Solvent-Dewaxed Heavy Paraffinic Petroleum Distillate (CAS: 64742-65-0 / EC: 265-156-6)

LD50 Oral (Rat) : > 5000 mg/kg (ChemInfo)

LD50 Dermal (Rabbit) : > 5000 mg/kg (ChemInfo)

Routes Of Exposure : None Identified.

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure : See Section 4.2

Skin Corrosion/Irritation : Not classified

Eye Damage/Irritation : Not classified



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Respiratory or Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Reproductive Toxicity	: Not classified
STOT-Single Exposure	: Not classified
STOT-Repeated Exposure	: Not classified
Aspiration Hazard	: May be fatal if swallowed and enters airways.
Carcinogen Data	: None of the ingredients in the product are listed with OSHA, IARC, NTP or ACGIH as being a suspected or known carcinogen in a concentration greater than 0.1% by weight.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

Stoddard Solvent (8052-41-3)

LC50 Fish	Rainbow Trout - 96hr
Log Pow	3.16-7.06
Log Koc	log Koc, 2.85-6.74

Hydrotreated Light Petroleum Distillate (64742-47-8)

Persistence and Degradability	Biodegradability 88% / 28 days.
Log Pow	6

Hydrotreated Heavy Naphthenic Distillate (64742-52-5)

LC50 Fish	> 5000 mg/l Rainbow Trout - 96hr
EC50 Daphnia	> 1000 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability in water: no data available.
Log Pow	> 6.5
Bioaccumulative Potential	No bioaccumulation data available.

Solvent-Dewaxed Heavy Paraffinic Petroleum Distillate (64742-65-0)

LC50 Fish	> 5000 mg/l Rainbow Trout - 96hr
EC50 Daphnia	> 1000 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability in water: no data available.
Log Pow	> 6.5
Bioaccumulative Potential	No bioaccumulation data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal	: Product is suitable for burning in an enclosed, controlled burner for fuel value. Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.
Waste Disposal Of Packaging	: Consult with your local landfill to determine if empty small containers can be disposed of along with regular trash pickup. For disposal of large containers (typically 10 gallons or larger), or for containers not suitable for landfill, a licensed reconditioner should be used.
Landfill Precautions	: Not Available.
Incineration Precautions	: Not Available.

SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Number	: UN1993	UN1993	UN1993
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	: Flammable Liquid, NOS (Contains	Flammable Liquid, NOS (Contains	Flammable Liquid, NOS (Contains



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Stoddard Solvent)

Stoddard Solvent)

Stoddard Solvent)

14.3 Transport Hazard Class(es)

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es)	3	3	3
Labels	3 - Flammable liquid 	3 - Flammable liquid 	3 - Flammable liquid 
EmS Code	Not Applicable	Not Applicable	F-E, S-E

14.4 Packing Group

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Packing Group	III	III	III

14.5 Environmental Hazards

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Marine Pollutant	No	No	No

14.6 Special Precautions

Precautions : None Identified

14.7 Transport in Bulk

Remarks : Not applicable for product as supplied

SECTION 15 - REGULATORY INFORMATION

15.1 Federal Regulations

SARA Section 313 : This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA Section 12(b) : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity : This product or mixture is not known to contain a chemical or chemicals subject to the release reporting requirements of section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

15.2 State Regulations

California Proposition 65 : This product contains chemicals known to the State of California to cause cancer.

Quartz (14808-60-7)	Cancer	Yes	0.039 %
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State Right-to-Know Lists : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Stoddard Solvent (8052-41-3)	U.S. - New Jersey - Right to Know Hazardous Substance List
Quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	Changed item	Change
1	SDS ID	Modified
1	Select the Appropriate Proposition 65 Notice	Modified
1	Supersedes	Added
1	SDS US Regulation reference	Added
1	Other Manufacturer IDs	Modified
1	Revision date	Modified
1	Date of issue	Modified
1	Other means of identification	Modified
1	Product code	Modified
8.2	Compliance	Added
8.2	Remarks	Added



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8.2	Hand Protection	Added
8.2	Environmental Exposure Controls	Added
9	Relative vapor density at 20 °C	Added
9	Appearance	Added
9	Auto-ignition temperature	Modified
9	Specific gravity / density	Modified
14	Respiratory Protection	Added
14	User Precautions	Added
15	EmS Code (Column 15 in IMDG Book 2)	Added

Full Text of H-Statements

H Code	H Phrase
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.