

Nov. 9. 2007 10:56AM

Armadillo USA CLASSIC

No. 1908 P. 3

**Material Safety Data Sheet**  
According to 91/155 EEC

**00495-1009**

Printing date 13.04.2004

Reviewed on 13.04.2004

**1. Identification of the substance/preparation and of the company/institution**

- Product details
- Trade name: TURPENTINE
- Article number: 120260
- Manufacturer/Supplier:



**Old Holland Classic Oil Colours**



Since 1664



Nijental 36  
3972 KC Driebergen  
Holland

tel.: (31) 343 - 518224  
fax: (31) 343 - 518342

al department

**2. Physical and chemical characteristics**

- Chemical characterization:
- CAS No. Description  
9005-90-7 TURPENTINE
- Identification number(s)
- EINECS Number: 232-688-5
- EU Number: 630-002-00-6

**3. Hazard identification**

- Hazard description:



Xn Harmful

- Information concerning particular hazards for human and environment:  
R 10 Flammable.  
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

**4. First aid measures**

- General information:  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Call for a doctor immediately.

**5. Fire fighting measures**

- Suitable extinguishing agents: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:  
Water  
Water with full jet

(Contd. on page 2)

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Nov. 8. 2007 11:05:57AM

Armadillo USA:LASSIC

No. 1908 P. 4

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 13.04.2004

Reviewed on 13.04.2004

Trade name: **TURPENTINE**

(Contd. of page 1)

- *Protective equipment: Mount respiratory protective device.*

**Accidental release measures**

- *Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.*
- *Measures for environmental protection: No special measures required.*
- *Measures for cleaning/collecting:*  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*  
*Dispose contaminated material as waste according to item 13.*  
*Ensure adequate ventilation.*  
*Do not flush with water or aqueous cleansing agents*

**Handling and storage**

- *Handling:*
- *Information for safe handling: Ensure good ventilation/exhaustion at the workplace.*
- *Information about fire - and explosion protection:*  
*Keep ignition sources away - Do not smoke.*  
*Protect against electrostatic charges.*
- *Storage:*
- *Requirements to be met by storerooms and receptacles: No special requirements.*
- *Information about storage in one common storage facility: Not required.*
- *Further information about storage conditions: Keep container tightly sealed.*

**Exposure controls / personal protection**

- *Additional information about design of technical facilities: No further data; see item 7.*
- *Ingredients with limit values that require monitoring at the workplace: Not required.*
- *Additional information: The lists valid during the making were used as basis.*
- *Personal protective equipment:*
- *General protective and hygienic measures:*  
*Keep away from foodstuffs, beverages and feed.*  
*Wash hands before breaks and at the end of work.*  
*Avoid contact with the eyes and skin.*
- *Respiratory protection:*  
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*
- *Protection of hands:*



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*  
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- *Material of gloves*

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

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Armadillo USA CLASSIC

No. 1908's P. 5

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 13.04.2004

Reviewed on 13.04.2004

Trade name: TURPENTINE

(Contd. of page 2)

- Penetration time of glove material  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

#### General Information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

- Change in condition  
Melting point/Melting range: Undetermined,  
Boiling point/Boiling range: 152-170°C

- Flash point: 38°C

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:  
Lower: 0.8 Vol %  
Upper: 6.1 Vol %

- Density at 20°C: 0.863 g/cm<sup>3</sup>

- Solubility in / Miscibility with water: Not miscible or difficult to mix

#### 10. Stability and reactivity

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known.
- Dangerous decomposition products: No dangerous decomposition products known.

#### 11. Toxicological information

- Acute toxicity:
- Primary irritant effect:  
on the skin: No irritant effect.  
on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

#### 12. Disposal considerations

- Product:
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 4)

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Armadillo USA/LASSIC

No. 1908 P. 6

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 13.04.2004

Reviewed on 13.04.2004

Trade name: **TURPENTINE**

(Contd. of page 3)

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

**Transportation**

- Land transport ADR/RID (cross-border)



- ADR/RID class: 3 Flammable liquids.
- Danger code (Keiter): 36
- UN-Number: 1299
- Packaging group: III
- Hazard label: 3
- Description of goods: 1299 TURPENTINE

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1299
- Label: 3
- Packaging group: III
- EMS Number: F-E, S-D
- Proper shipping name: TURPENTINE

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UNID Number: 1299
- Label: 3
- Packaging group: III
- Proper shipping name: TURPENTINE

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:  
Xn Harmful
- Risk phrases:  
10 Flammable.  
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- Safety phrases:  
2 Keep out of the reach of children.

(Contd. on page 5)

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Nov. 8. 2007 10:57AM

Armadillo USA:LASSIC

No. 1908 P. 7

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 13.04.2004

Reviewed on 13.04.2004

Trade name: **TURPENTINE**

- 7/9 Keep container tightly closed and in a well-ventilated place.
  - 16 Keep away from sources of ignition - No smoking.
  - 28 After contact with skin, wash immediately with plenty of soap and water.
  - 36/37 Wear suitable protective clothing and gloves.
  - 60 This material and its container must be disposed of as hazardous waste.
- (Contd. of page 4)

**Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Environmental department
- Contact: Vivochem Almelo

03

Material Safety Data Sheet  
According to 91/155 EEC

Driebergen October 2007

**1 Identification of substance/preparation and of the company /  
undertaking**

**Trade name:** Turpentine ( Painting Medium )  
Article numbers: 1102, 1107, 1108, 1110, 1111, 1132

**Company:** Old Holland Classic Colours since 1664  
Nijendal 36  
3972 KC Driebergen  
Netherland  
Tel +31 (0343) 518224 Fax +31 (0343) 516342

**2 Composition/Information on Ingredients**

Chemical characterization:  
CAS No Description  
8006-64-2 Turpentine  
Identification Number:  
EINECS 232-350-7  
EU number: 650-002-00-6

**3. Hazards identification**

**Hazard description:**



- **information concerning particular hazards for human and environment:**
- R 10 Flammable.
- R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitisation by skin contact.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R 65 Harmful: may cause lung damage if swallowed.

**4. First-aid measures.****General information:**

- Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stable in side position for transportation.

**After skin contact :**

- Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

- Rinse opened eye for several minutes under running water. If symptoms persist, contact a doctor

**After swallowing:**

- Call for a doctor immediately.

**5 Fire-fighting measures****Suitable extinguishing agents**

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- Protective equipment: Mount respiratory device.

**6 Accidental release measures****Person-related safety precautions:**

- Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:**

- Inform respective authorities in case of seepage into water.

**Measures for cleaning/collecting;**

- Absorb with liquid-binding material ( sand diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

**7 Handling and storage****Handling:****Information for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.

**Information about fire – and explosion protection:**

- Keep ignition sources away – Do not smoke.  
Protect against electrostatic charges.

**Storage:**

- **Requirements to be met by storerooms and receptacles:**  
No special requirements.
- **Information about storage in one common storage facility:**  
No required.
- **Further information about storage conditions:**  
Keep container tightly sealed.

<b>8 Exposure controls/personal protection</b>
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**Additional with limit values that require monitoring at the workplace:**

- No further data: see item 7

- 8006-64-2 TURPENTINE

OES Short-term value: 850 mg/m <sup>3</sup> , 150 ppm Long-term value 566 mg/m <sup>3</sup> , 100 ppm
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- **Additional information:** The list valid during the making were used as Basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



The gloves material has to be impermeable and resistant to the product / The substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation / the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rate of diffusion and the degradation.

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks or quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles.

## 9 Physical and chemical properties

### General information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

### Change in condition

Melting point/Melting range: ca -55°C  
Boiling point/ Boiling range: > 165°C

Flash point: 35°C

Ignition temperature: > 150°C

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion Limits:  
Lower: 0.8 Vol %  
Upper: 6 Vol %

Vapour pressure at 20°C 3 pHa

Density at 20°C 0.86-0.87 g/cm<sup>3</sup>

Solubility in / Miscibility with water at 20°C : 0.02 g/l

**10 Stability and reactivity**

**Thermal decomposition / conditions to be avoided:**  
- No decomposition if used according to specifications;  
**Dangerous reactions:** no dangerous reactions known,

**11 Toxicological information**

**Acute toxicity:**  
**Primary irritant effect:**  
- **On the skin:** Irritant to skin and mucous membranes.  
- **On the eyes:** Irritating effect.  
- **Sensitization:** Sensitization possible through skin contact.

**12 Ecological information**

**Ecotoxical effect:**  
- **Remark:** Toxic for fish  
- **General notes:**  
Generally not hazardous for water  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms.

**13 Disposal considerations**

**Product:**  
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow products to reach sewage systems.  
- **Uncleaned packaging:**  
**Recommendation:** Disposal must be made according to official regulations.

<b>14</b>	<b>Transport information</b>
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**Land transport ADR/RID ( cross-border)**

- ADR/RID class: 3 Flammable liquids
- Danger code (kemler): 30
- UN-Number: 1299
- Packaging group 111 (3)
- Hazard label: 3
- Description of goods: 1299 Turpentine

**Maritime transport IMDG:**

- IMDG Class: 3
- UN Number: 1299
- Label: 3
- Packaging group: 111 (3)
- EMS Number: F-E, S-E
- Marine pollutant: No

Proper shipping name      TURPENTINE

**Air transport ICAO-TI and IATA-DGR:**

- ICAO/IATA class: 3
- UN/ID number: 1299
- Label: 3
- Packaging group: 111 (3)
- Proper shipping name: TURPENTINE

<b>15</b>	<b>Regulatory information</b>
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**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU directives Ordinance on Hazardous Materials

**Code letter and hazard designation of product:**

Xn Harmful

N Dangerous for the environment.

**Risk phrases:**

10 Flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

**Safety phrases :**

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves

46 If swallowed, seek medical advice immediately and show this container or label.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**National regulations:****- Technical instructions (air):**

Class	Share in %
NK	>98

**Water hazard class:** Generally not hazardous for water.

<b>16 Other information:</b>
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*This product information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- . Department issuing MSDS: Environmental department.
- . Contact: Old Holland Classic Colours

00495-xxxx

Old Holland oil colours "classic"  
V#1721  
Old Holland Oil Colors  
# 00495 - all skus

\* Rcvd 09-18-01 ✓ MATERIAL SAFETY DATA SHEET

MANUFACTURER OR DISTRIBUTOR: Old Holland Classic Oil Colors  
Nijental 36  
3972, KC Driebergen Holland

INFORMATION TELEPHONE NUMBER: 03438-19224

EMERGENCY TELEPHONE NUMBER: 03438-19224

----- SECTION I - PRODUCT IDENTIFICATION -----

PRODUCT NAME: OILCOLOURS PRODUCT NO. OH-01  
PRODUCT SIZES: 25 ML, 40 ML, 60 ML, 120 ML, 225 ML  
PRODUCT CLASS: OIL PAINT

----- SECTION II - HAZARDOUS INGREDIENTS -----

INGREDIENT	CAS#	PEL/TLV (MG/M3)	MAX %WEIGHT	NTP	IARC
SOLUBLE BARIUM		0.50	5.62700	N	N
CADMIUM PIGMENT.		0.05	80.00000	N	N
CADMIUM SULFIDE	1306-23-6	0.05	77.00000	N	Y
SOLUBLE COBALT	7440-48-4	0.05	1.52000	N	N
SOLUBLE COPPER	7440-50-8	1.00	0.18153	N	N
LEAD	7439-92-1	0.05	50.62500	N	N

----- SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS -----

BOILING POINT: N/A MELTING POINT: N/A  
VAPOR PRESSURE: N/A  
SPECIFIC VAPOR DENSITY (AIR=1): N/A SPECIFIC GRAVITY: N/A  
SOLUBILITY IN WATER: N/A REACTIVITY IN WATER: NON-REACTIVE  
APPEARANCE AND ODOR:

----- SECTION IV - FIRE AND EXPLOSION INFORMATION -----

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A  
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE  
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED  
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED  
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

----- SECTION V - PHYSICAL HAZARDS/REACTIVITY -----

HAZARDOUS POLYMERIZATION PRODUCTS: NONE  
STABILITY: STABLE CONDITIONS TO AVOID: NONE  
INCOMPATIBILITY (MATERIALS TO AVOID): NONE  
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

V-1721

*Label sheet of 2 (2/2)  
Old Holland 'classic' oil colors*

COMPANY: Old Holland Classic Oil Colors PRODUCT: OH-01  
BRAND NAME: OILCOLOURS

----- SECTION VI - HEALTH HAZARD DATA -----

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: MAY BE HARMFUL IF SWALLOWED. EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, CHEST PAIN, CHEST TIGHTNESS, WHEEZING AND A COUGH.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: CANCER AGENT BY INHALATION BASED ON TESTS WITH LABORATORY ANIMALS. CANCER AGENT BASED ON EXPERIMENTAL DATA. EXPOSURE MAY CAUSE HARM TO THE DEVELOPING FETUS. EXPOSURE MAY CAUSE DAMAGE TO THE TESTES OR DIFFICULTY WITH REPRODUCTION (CHILD BEARING). EXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS OR LIVER. EXPOSURE MAY CAUSE DAMAGE TO THE HEART OR LUNGS. EXPOSURE MAY CAUSE NERVOUS SYSTEM, KIDNEY OR BONE MARROW DAMAGE. EXPOSURE MAY RESULT IN ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. EXPOSURE MAY RESULT IN FATIGUE. CHRONIC EXPOSURE MAY RESULT IN WEAKNESS OF MUSCLES AND PAIN AND TINGLING IN THE EXTREMITIES. CHRONIC EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, EASY FATIGABILITY AND CHEST PAIN.

CARCINOGEN LISTING: NTP: NO IARC: YES OSHA: NO  
SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: ASTHMA. CHRONIC DERMATITIS. KIDNEY DISEASE. ANEMIA. PREGNANCY. HEART DISEASE.

FIRST AID MEASURES: If swallowed, get prompt medical attention.

----- SECTION VII - SPILL OR LEAK PROCEDURES -----

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Keep in original container. NOT FOR USE IN HEALTH CARE FACILITIES. KEEP OUT OF REACH OF CHILDREN.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

----- SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES -----

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: When mixing or handling dry material, use NIOSH-certified mask for dusts or mists. OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): Wear a work apron. WORK/HYGIENE PRACTICES: Do not spray apply. Wash hands immediately after use. When using do not eat, drink or smoke. AVOID USING IF PREGNANT OR CONTEMPLATING PREGNANCY. THIS INFORMATION SHEET IS FOR THE CONSUMER USE OF THIS PRODUCT ONLY.

Form Completed by: Woodhall Stopford, MD, MSPH  
Last Updated: 08/08/95