

## Safety Data Sheet

According to 1907/ 2006/EC, Article 31

Page 1 / 6

Trade Name : 2K clear coat HS  
Printing date 01.06.2020

Revision: 01.06.2020

### 1 Identification of substance

- **Product identifier**
- **Trade name: 2K clear coat HS**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture Coating**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
4M For Coatings co.  
Industry Area , Area G, Block C9  
Port Said Governorate  
Egypt  
Ch.M\_Loutfy@4mcoatings.com
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** During normal opening times: +2 01099354294

### 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

n-butyl acetate:25% CAS: 123-86-4 - xylene :15.0% CAS: CAS: 1330-207	
--	--

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- **Hazard description:**



Harmful

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Flammable.

Harmful by inhalation.

Irritating to eyes and skin.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 2 Health = 2

FIRE 3 Fire = 3

REACTIVITY 0 Reactivity = 0

### 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.

(Contd. on page 2)

**Safety Data Sheet**  
According to 1907/ 2006/EC, Article 31

Trade Name : 2K clear coat HS

Printing date 01.06.2020

Revision: 01.06.2020

(Contd. of page 1)

- 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. If symptoms persist, consult a doctor.
  - **After swallowing:** If symptoms persist consult doctor.

### 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
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground 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.  
Do not flush with water or aqueous cleansing agents

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
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 receptacle tightly sealed.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

**butyle acetate**

PEL	Short-term value: C 200; 600* ppm Long-term value: 100 ppm *5-min peak in any 3 hrs
REL	Short-term value: 425 mg/m <sup>3</sup> , 100 ppm Long-term value: 215 mg/m <sup>3</sup> , 50 ppm
TLV	Short-term value: 170 mg/m <sup>3</sup> , 40 ppm Long-term value: 85 mg/m <sup>3</sup> , 20 ppm
BEI	

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 3)

**Safety Data Sheet**  
According to 1907/ 2006/EC, Article 31

Trade Name : 2K clear coat HS

Printing date 01.06.2020

Revision: 01.06.2020

(Contd. of page 2)

- **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.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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

<b>Form:</b>	fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	117°C

· **Flash point:** 24°C

· **Ignition temperature:** 370°C

· **Auto igniting:** Product is not selfigniting.

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

### · Explosion limits:

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	8.9 Vol %

(Contd. on page 4)

**Safety Data Sheet**  
According to 1907/ 2006/EC, Article 31

Trade Name : 2K clear coat HS

Printing date 01.06.2020

Revision: 01.06.2020

· Vapor pressure at 20°C (68°F):	6.0 hPa (5 mm Hg)
· Density:	1-1.35 g/cm <sup>3</sup>
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Solvent content: Organic solvents:	25- 40%
· Solids content:	60-75 %

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

#### 100-42-5 butyle acetate

Oral	LD50	5000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

### 12 Ecological information

- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**Safety Data Sheet**  
According to 1907/ 2006/EC, Article 31

Trade Name : 2K clear coat HS

Printing date 01.06.2020

Revision: 01.06.2020

### 14 Transport information

· **Land transport ADR/RID (cross-border):**

- **UN-Number:** 1263
- **Description of goods:** 1263 PAINT

· **Maritime transport IMDG:**

- **UN Number:** 1263
- **Marine pollutant:** No
- **Propper shipping name:** PAINT

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

- **UN/ID Number:** 1263
- **Propper shipping name:** PAINT

### 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

All ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

123-86-4	butyle acetate	2B
----------	----------------	----

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

123-86-4	butyle acetate	A4
----------	----------------	----

· **MAK (German Maximum Workplace Concentration)**

123-86-4	butyle acetate	5
----------	----------------	---

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

Trade Name : 2K clear coat HS

Printing date 01.06.2020

Revision: 01.06.2020

(Contd. of page 5)

· **Product related hazard informations:**

*The product has been classified and marked in accordance with directives on hazardous materials.*

· **Hazard symbols:**

*Harmful*

· **Hazard-determining components of labelling:**

*butyle acetate e*

· **Risk phrases:**

*Flammable.*

*Harmful by inhalation.*

*Irritating to eyes and skin.*

· **Safety phrases:**

*Keep out of the reach of children.*

*Keep container in a well-ventilated place.*

*If swallowed, seek medical advice immediately and show this container or label. Dispose of this material and its container to hazardous or special waste collection point.*

### 16 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:** product safety department