

**Products****Report No.:** 0154089891a 002

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**Client:****Buyer's name:**

The Pencil Grip, Inc

**Manufacturer's name:****Test item(s):**

Toy

**Identification/****Model No(s):**

12 colors common color solid tempera stick  
6 colors fluorescent solid tempera stick  
6 colors metallic solid tempera stick  
93-2100, 93-2101, 93-2102, 93-2103,  
93-2104, 93-2105, 93-2106, 93-2112

**Sample Receiving date:** 2015-03-13**Testing Period:** 2015-03-13 - 2015-03-18**Test Specification:**

1. ASTM F963-11 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials<sup>^</sup>
2. ASTM F963-11 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials<sup>^</sup>

**Test result:**

PASS

PASS

**Other information:**

Country of Origin: CHINA

Sales Destination: USA

<sup>^</sup>As per client's request, selected items were tested.

The report 0154089891a 002 supersede report 0154089891a 001.

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.

2015-03-26

Wice Wang / Section Manager

**Date****Name/Position***Test result is drawn according to the kind and extent of tests performed.**This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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**Material List:**

Item: 12 colors common color solid tempera stick  
 6 colors fluorescent solid tempera stick  
 6 colors metallic solid tempera stick  
 93-2100, 93-2101, 93-2102, 93-2103,  
 93-2104, 93-2105, 93-2106, 93-2112

Material No.	Material	Color	Location
M001	Materials intended to leave a trace	White	12 color common color solid tempera stick
M002	Materials intended to leave a trace	Black	12 color common color solid tempera stick
M003	Materials intended to leave a trace	Red	12 color common color solid tempera stick
M004	Materials intended to leave a trace	Pink	12 color common color solid tempera stick
M005	Materials intended to leave a trace	Orange	12 color common color solid tempera stick
M006	Materials intended to leave a trace	Yellow	12 color common color solid tempera stick
M007	Materials intended to leave a trace	Dark blue	12 color common color solid tempera stick
M008	Materials intended to leave a trace	Light blue	12 color common color solid tempera stick
M009	Materials intended to leave a trace	Purple	12 color common color solid tempera stick
M010	Materials intended to leave a trace	Dark green	12 color common color solid tempera stick
M011	Materials intended to leave a trace	Light green	12 color common color solid tempera stick
M012	Materials intended to leave a trace	Brown	12 color common color solid tempera stick
M013	Plastic	White	PP Tube, 12 color common color solid tempera stick
M014	Plastic	Black	PP Tube, 12 color common color solid tempera stick
M015	Plastic	Red	PP Tube, 12 color common color solid tempera stick

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Item Numbers: 00082-1006, 00082-1012, 00082-1024, 00082-1096, 00082-1144, 00082-1072, 00082-1106, 00082-1124, 00082-1172, 00082-1206

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M016	Plastic	Pink	PP Tube, 12 color common color solid tempera stick
M017	Plastic	Orange	PP Tube, 12 color common color solid tempera stick
M018	Plastic	Yellow	PP Tube, 12 color common color solid tempera stick
M019	Plastic	Dark blue	PP Tube, 12 color common color solid tempera stick
M020	Plastic	Light blue	PP Tube, 12 color common color solid tempera stick
M021	Plastic	Purple	PP Tube, 12 color common color solid tempera stick
M022	Plastic	Dark green	PP Tube, 12 color common color solid tempera stick
M023	Plastic	Light green	PP Tube, 12 color common color solid tempera stick
M024	Plastic	Brown	PP Tube, 12 color common color solid tempera stick
M025	Plastic	White	PE Cap/Base, 12 color common color solid tempera stick
M026	Plastic	Black	PE Cap/Base, 12 color common color solid tempera stick
M027	Plastic	Red	PE Cap/Base, 12 color common color solid tempera stick
M028	Plastic	Pink	PE Cap/Base, 12 color common color solid tempera stick
M029	Plastic	Orange	PE Cap/Base, 12 color common color solid tempera stick
M030	Plastic	Yellow	PE Cap/Base, 12 color common color solid tempera stick
M031	Plastic	Dark blue	PE Cap/Base, 12 color common color solid tempera stick
M032	Plastic	Light blue	PE Cap/Base, 12 color common color solid tempera stick
M033	Plastic	Purple	PE Cap/Base, 12 color common color solid tempera stick
M034	Plastic	Dark green	PE Cap/Base, 12 color common color solid tempera stick

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M035	Plastic	Light green	PE Cap/Base, 12 color common color solid tempera stick
M036	Plastic	Brown	PE Cap/Base, 12 color common color solid tempera stick
M037	Plastic	Black	PE small base into the tube
M038	Coating	Silver	Coating on tube
M039	Materials intended to leave a trace	Fluorescent Yellow	6 colors fluorescent solid tempera stick
M040	Materials intended to leave a trace	Fluorescent Orange	6 colors fluorescent solid tempera stick
M041	Materials intended to leave a trace	Fluorescent Pink	6 colors fluorescent solid tempera stick
M042	Materials intended to leave a trace	Fluorescent Green	6 colors fluorescent solid tempera stick
M043	Materials intended to leave a trace	Fluorescent Blue	6 colors fluorescent solid tempera stick
M044	Materials intended to leave a trace	Fluorescent Purple	6 colors fluorescent solid tempera stick
M045	Plastic	Fluorescent Yellow	PP Tube, 6 colors fluorescent solid tempera stick
M046	Plastic	Fluorescent Orange	PP Tube, 6 colors fluorescent solid tempera stick
M047	Plastic	Fluorescent Pink	PP Tube, 6 colors fluorescent solid tempera stick
M048	Plastic	Fluorescent Green	PP Tube, 6 colors fluorescent solid tempera stick
M049	Plastic	Fluorescent Blue	PP Tube, 6 colors fluorescent solid tempera stick
M050	Plastic	Fluorescent Purple	PP Tube, 6 colors fluorescent solid tempera stick
M051	Plastic	Fluorescent Yellow	PE Cap/Base, 6 colors fluorescent solid tempera stick
M052	Plastic	Fluorescent Orange	PE Cap/Base, 6 colors fluorescent solid tempera stick
M053	Plastic	Fluorescent Pink	PE Cap/Base, 6 colors fluorescent solid tempera stick
M054	Plastic	Fluorescent Green	PE Cap/Base, 6 colors fluorescent solid tempera stick

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M055	Plastic	Fluorescent Blue	PE Cap/Base, 6 colors fluorescent solid tempera stick
M056	Plastic	Fluorescent Purple	PE Cap/Base, 6 colors fluorescent solid tempera stick
M057	Materials intended to leave a trace	Gold	6 colors metallic solid tempera stick
M058	Materials intended to leave a trace	Silver	6 colors metallic solid tempera stick
M059	Materials intended to leave a trace	Pink	6 colors metallic solid tempera stick
M060	Materials intended to leave a trace	Green	6 colors metallic solid tempera stick
M061	Materials intended to leave a trace	Blue	6 colors metallic solid tempera stick
M062	Materials intended to leave a trace	Purple	6 colors metallic solid tempera stick
M063	Plastic	Gold	PP Tube, 6 colors metallic solid tempera stick
M064	Plastic	Silver	PP Tube, 6 colors metallic solid tempera stick
M065	Plastic	Pink	PP Tube, 6 colors metallic solid tempera stick
M066	Plastic	Green	PP Tube, 6 colors metallic solid tempera stick
M067	Plastic	Blue	PP Tube, 6 colors metallic solid tempera stick
M068	Plastic	Purple	PP Tube, 6 colors metallic solid tempera stick
M069	Plastic	Gold	PE Cap/Base, 6 colors metallic solid tempera stick
M070	Plastic	Silver	PE Cap/Base, 6 colors metallic solid tempera stick
M071	Plastic	Pink	PE Cap/Base, 6 colors metallic solid tempera stick
M072	Plastic	Green	PE Cap/Base, 6 colors metallic solid tempera stick
M073	Plastic	Blue	PE Cap/Base, 6 colors metallic solid tempera stick

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M074	Plastic	Purple	PE Cap/Base, 6 colors metallic solid tempera stick
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**1.ASTM F963-11 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials**

Test Method: CPSC-CH-E1003-09.1 (Microwave method)

**Test result**

<b>ASTM F963-11 Sect. 4.3.5.1</b>	Total lead content in paint and coating materials	<b>PASS</b>
<b>CPSIA Sect. 101</b>	Total lead content in paint and coating materials	<b>PASS</b>

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M038	Total Pb	ppm	10	90	n.d.

**Abbreviation:** n.d. = Not Detected (< RL)  
 RL = Reporting Limit  
 ppm = parts per million

**Remark:**

Requirement according to Consumer Product Safety Improvement Act 2008 Public Law 110-314, section 101, is summarized below:

Effective Date	<b>Maximum Permissible Limit</b> Lead in paint and similar surface coating
1 year after enactment/ 14 Aug 2009	90 ppm

## Products



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**2.ASTM F963-11 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials**

Test Method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

**Test result**

ASTM F963-11 Sect. 4.3.5.2		Total lead content in substrate materials				PASS
CPSIA Sect. 101		Total lead content in substrate materials				PASS
Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001 + M002 + M003	Total Pb	ppm	10	100	n.d.
T002	M004 + M005 + M006	Total Pb	ppm	10	100	n.d.
T003	M007 + M008 + M009	Total Pb	ppm	10	100	n.d.
T004	M010 + M011 + M012	Total Pb	ppm	10	100	n.d.
T005	M013 + M014 + M015	Total Pb	ppm	10	100	n.d.
T006	M016 + M017 + M018	Total Pb	ppm	10	100	n.d.
T007	M019 + M020 + M021	Total Pb	ppm	10	100	n.d.
T008	M022 + M023 + M024	Total Pb	ppm	10	100	n.d.
T009	M025 + M026 + M027	Total Pb	ppm	10	100	n.d.
T010	M028 + M029 + M030	Total Pb	ppm	10	100	n.d.
T011	M031 + M032 + M033	Total Pb	ppm	10	100	n.d.
T012	M034 + M035 + M036	Total Pb	ppm	10	100	n.d.
T013	M037	Total Pb	ppm	10	100	n.d.
T014	M039 + M040 + M041	Total Pb	ppm	10	100	n.d.

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T015	M042 + M043 + M044	Total Pb	ppm	10	100	n.d.
T016	M045 + M046 + M047	Total Pb	ppm	10	100	n.d.
T017	M048 + M049 + M050	Total Pb	ppm	10	100	n.d.
T018	M051 + M052 + M053	Total Pb	ppm	10	100	n.d.
T019	M054 + M055 + M056	Total Pb	ppm	10	100	n.d.
T020	M057 + M058 + M059	Total Pb	ppm	10	100	n.d.
T021	M060 + M061 + M062	Total Pb	ppm	10	100	n.d.
T022	M063 + M064 + M065	Total Pb	ppm	10	100	n.d.
T023	M066 + M067 + M068	Total Pb	ppm	10	100	n.d.
T024	M069 + M070 + M071	Total Pb	ppm	10	100	n.d.
T025	M072 + M073 + M074	Total Pb	ppm	10	100	n.d.

**Abbreviation:** n.d. = Not Detected (< RL)  
 RL = Reporting Limit  
 ppm = parts per million

## Products



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## Remark:

Requirement according to Consumer Product Safety Improvement Act 2008 Public Law 110-314, section 101, is summarized below:

Effective Date	Maximum Permissible Limit Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm

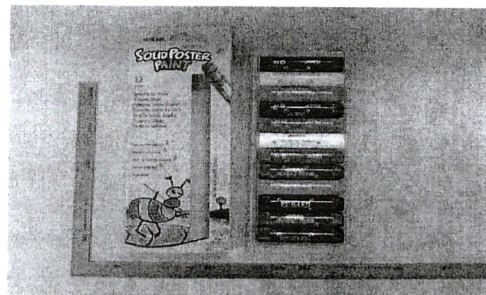
- \*1 According to Consumer Product Safety Commission, exemptions for lead as used in certain parts of children's electronic devices, the following lead-containing components are granted the exemptions:
- a) Glass of cathode ray tubes, electronic components and fluorescent tubes
  - b) As an alloying element in steel, the maximum amount of lead shall be less than 0.35% by weight (3,500 ppm);
  - c) Used the manufacture of aluminum, the maximum amount of lead shall be less than 0.4% by weight (4,000 ppm);
  - d) Used in copper-based alloys, the maximum amount of lead shall be less than 4% by weight (40,000 ppm);
  - e) Lead-bronze bearing shells and bushings;
  - f) Compliant pin connector systems;
- \*2 According to Consumer Product Safety Commission, the following materials are exempted based on they are untreated and unadulterated with respect to the addition of materials or chemicals, including pigments, dyes, coatings, finishes or any other substance, and that do not undergo any processing that could result in the addition of lead into the product or material:
- a) Precious gemstones: diamond, ruby, sapphire or emeralds;
  - b) Semiprecious gemstones provided that the mineral or material is not based on lead and is not associated with mineral based on lead or lead compounds;
  - c) Natural or cultured pearls;
  - d) Wood;
  - e) Paper and similar materials made from wood or cellulosic fiber;
  - f) Dyed or undyed textiles (cotton, wool, hemp, nylon, yarn, etc.);
  - g) CMYK process printing inks;
- \*3 According to H.R. 2715, the following functional purpose children's products are granted the exemptions:
- a) Off-highway motorized vehicles;
  - b) Bicycles and related products (the lead limit for metal components described in June 20, 2009 "Notice of Stay of Enforcement Pertaining to Bicycles and Related Products" continue to be applied until December 31, 2011. After the date, these metal components must meet a 300 ppm total lead limit.);
  - c) Resale of used children's products (excluding children's jewelry or any children's product for which known to be violated the lead limit).
- \*4 According to Consumer Product Safety Commission, the aluminum alloy components on children's ride-on tractors, children's ride-on cars, and other ride-on toys for children ages 3 years and older are granted to have a 300 ppm lead limit.

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**Sample Photos**

- END -

**Products****Report No.:** 0154089891c 001

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**Client:****Buyer's name:** The Pencil Grip, Inc**Manufacturer's name:****Test item(s):** Toy**Identification /  
Model No(s):**12 colors common color solid tempera stick  
6 colors fluorescent solid tempera stick  
6 colors metallic solid tempera stick  
93-2100, 93-2101, 93-2102, 93-2103,  
93-2104, 93-2105, 93-2106, 93-2112**Sample Receiving Date:** 2015-03-13**Testing Period:** 2015-03-13 - 2015-03-26**Test specification:**  
*Customer requirement:*

1 LHAMA\*

**Test result:**

Please refer to test page

**Other information:**

Country of Origin: CHINA

Sales Destination: USA

\* = The test was subcontracted to other labs.

**For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.**

2015-03-26

Wice Wang / Section Manager

Date

Name/Position

*Test result is drawn according to the kind and extent of tests performed.**This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*TÜV Rheinland (Shanghai) Co., Ltd. 12F, Shanghai TÜV Rheinland Building, No.177, Lane 777, West Guangzhong Road, Zhabei District, Shanghai  
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Products

**Test Report No.: 0154089891c 001**

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**SAMPLE DESCRIPTION:**

ITEM NAME: *Tempera Stick* product, with chemical ingredients as defined per Appendix A  
USE: Solid paint stick product consisting of 24 sticks: 12 common colors; 6 fluorescent colors; and 6 metallic colors  
AGE GRADE: 3+ years of age/Toy  
COUNTRY OF ORIGIN: China  
COUNTRY OF DESTINATION: USA

**TEST CONDUCTED:**

1. Labeling of Hazardous Art Materials (LHAMA) Review

**REGULATORY REFERENCES:**

American Society for Testing and Materials (ASTM) Standard D-4236.  
United States Federal Hazardous Substances Act (FHSA) (16 CFR 1500.14(b)(8).

**SOURCES OF TOXICITY INFORMATION:**

This review considered relevant data from the US National Toxicology Program, the World Health Organization's International Agency for Research on Cancer and other sources of information in the US National Library of Medicine's Toxicological Databases. This information was used to assess the need for chronic health hazard warnings, including carcinogenesis, neurotoxicity, reproductive hazards, teratogenic hazards and other potential chronic adverse health effects. Relevant information on bioavailability and exposure were also considered in this assessment. Reasonable judgment was made in the absence of specific information (e.g., degree of incidental dermal and oral exposure) to assure a reliable assessment of the *Tempera Stick* product.

**ASSUMPTIONS:**

The product or ingredients thereof contain no contaminants at levels that would be expected to be toxic, corrosive or irritating to a consumer who may be exposed to them *via* the likely dermal route or incidental oral route of exposures. The ingredients in the *Tempera Stick* product are minimally respirable and are therefore not of toxicological concern *via* inhalation exposure.

**RESULTS OF EVALUATION:**

Searches of the above cited sources for relevant toxicity information provided no information that indicated that any of the ingredients at levels found in the product would be expected to pose significant chronic adverse health effects to humans when used as intended or under reasonable incidental misuse.

Based on the toxicity data identified for the chemical ingredients listed for the *Tempera Stick* product, the product is considered to be safe for the intended use.

Based on the identified information available to date and assuming the stated assumptions are all correct, the product would not be expected to pose significant chronic adverse health effects to humans, including children, when used as intended or under reasonable incidental misuse.

The product can be labeled as: **Conforms to ASTM D-4236.**

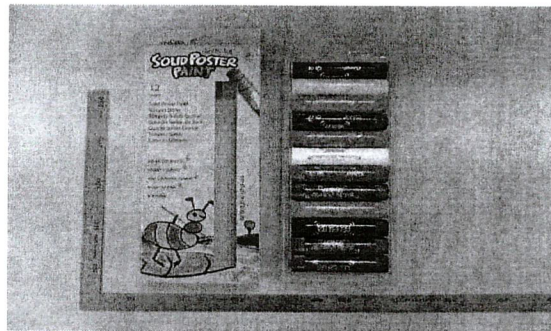
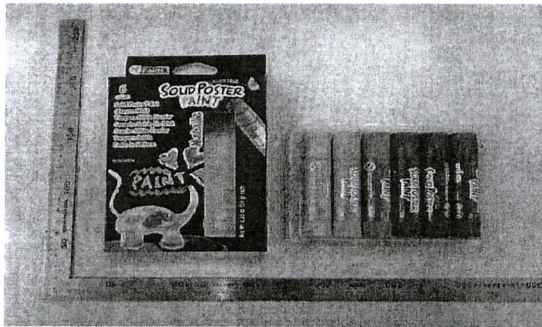
**CONCLUSION:**

Based on the LHAMA Review, the submitted *Tempera Stick* product should be labeled as:  
**Conforms to ASTM D-4236**

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Sample Photo:



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**Products****Report No.:** 0154089891b 001

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**Client:****Buyer's name:** The Pencil Grip, Inc**Manufacturer's name:****Test item(s):** Toy**Identification /  
Model No(s):**12 colors common color solid tempera stick  
6 colors fluorescent solid tempera stick  
6 colors metallic solid tempera stick  
93-2100, 93-2101, 93-2102, 93-2103,  
93-2104, 93-2105, 93-2106, 93-2112**Sample Receiving Date:** 2015-03-13**Testing Period:** 2015-03-13 - 2015-03-26**Test specification:**  
*Customer requirement:*

1 Toxicology &amp; Regulatory Assessment\*

**Test result:**

Please refer to test page

**Other information:**

Country of Origin: CHINA

Sales Destination: USA

\* = The test was subcontracted to other labs.

**For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.**

2015-03-26

Wice Wang / Section Manager

Date

Name/Position

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**Products****Test Report No.: 0154089891b 001**

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**Sample:** "Tempera Stick" product**Toxicology & Regulatory Assessment****Product Review**

The formulation provided by client is representative of products of this type.

The "Tempera Stick" product consists of 24 sticks: 12 common colors; 6 fluorescent colors; and 6 metallic colors. The product will be distributed in the United States of American (USA) markets. The net weight of the chemical ingredients in each ink color of the "Tattoo Roller Inks" product is 310 milligrams (0.31 g). The product contains fourteen (14) unique chemical ingredients. The chemical constituents were reviewed through an extensive literature search to identify reliable USA exposure standards. It is assumed that this product consists of only these listed ingredients and contains no leachables, extractables, or other contaminants at levels that would be toxic, corrosive or irritating, or cause a sensitization reaction in consumers who may be exposed through intended product use.

**Exposure Scenario**

The *Tempera Stick* product was classified by the client as a toy that is expected to be used by children of 3+ years of age (mean body weight = 15.6 kg). It is assumed the major route of possible human toxicity will occur through expected dermal exposure to small quantities of the chemical ingredients through intended use of the *Tempera Stick* product. It is unlikely that more than small quantities of the product could be ingested through unintended oral contact by the child with the constituent chemicals in the *Tempera Stick* product. This is based on the solid composition and likely unpalatability of the product. Similarly, there is expected to be very minimal inhalation exposure to the chemical ingredients of the *Tempera Stick* product.

**Overall Safety & Compliance**

Based on the toxicity data, the chemical ingredients listed for the "Tempera Stick" product are generally considered to be safe for the intended use, with the following considerations:

The chemical ingredients of the *Tempera Stick* product are not expected to cause more than extremely minor irritation to undamaged skin or eye tissues, and are not expected to induce dermal sensitization or photosensitivity. The chemical ingredients of the *Tempera Stick* product are not expected to induce damage to internal organs following dermal exposure, but oral ingestion of these chemicals should be avoided.

It should be noted that assessment of the risk of human health effects from acute or repeated exposures to a product containing multiple chemical ingredients may be complicated by synergistic effects, individual human sensitivity and other factors beyond the scope of this report.

This product is not classified as a Dangerous Preparation according to Regulation (EC) No. 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (EC, 2006).

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