

SAFETY DATA SHEET

in accordance with 1907/2006/EC (REACH, as amended by 830/2015/EU) and 29 CFR 1910.1200

Revision date: 27 October 2015 **Initial date of issue:** 29 January 2008 **SDS No.** 111B-17

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

752 Cold Galvanizing Compound (Bulk)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Zinc rich primer and coating for iron, steel and their welds.

1.3. Details of the supplier of the safety data sheet

Company:

A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel.: +1 978-469-6446 Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Supplier:

1.4. Emergency telephone number

24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3, H226
STOT RE 2, H373I
Skin Irrit. 2, H315
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015

Flam. Liq. 3, H226
STOT RE 2, H373J
Skin Irrit. 2, H315
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

2.1.3. Classification according to WHMIS 1988

B2: Flammable liquids; D2A: Very toxic materials causing other effects

2.1.4. Australian statement of hazardous nature

Hazardous according to criteria of Safe Work Australia.

2.1.5. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



Signal word:

Warning

Hazard statements:	H226	Flammable liquid and vapour.
	H373I	May cause damage to the central nervous system, liver and kidneys through prolonged or repeated exposure.
	H315	Causes skin irritation.
	H410	Very toxic 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.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves and eye/face protection.
	P314	Get medical advice/attention if you feel unwell.
	P370/378A	In case of fire: Use CO ₂ , dry chemical or foam to extinguish.

Supplemental information: None

2.2.2. Labelling according to 29 CFR 1910.1200 / WHMIS 2015

Hazard pictograms:



Signal word: Warning

Hazard statements:	H226	Flammable liquid and vapour.
	H373J	May cause damage to the central nervous system, liver, kidneys and hearing through prolonged or repeated exposure.
	H315	Causes skin irritation.
	H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements: Same as section 2.2.1.

Supplemental information: None

2.3. Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
Zinc	70-80	7440-66-6 231-175-3	NA	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M-factor: 1)
Xylene	10-15	1330-20-7 215-535-7	NA	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H332/H312 STOT RE 2, H373I Skin Irrit. 2, H315 STOT SE 3, H335
Ethylbenzene	1-3	100-41-4 202- 849-4	NA	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373H

For full text of H-statements: see SECTION 16.

¹ Classified according to: * 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F), California Proposition 65
* 1272/2008/EC, REACH
* WHMIS 2015
* Safe Work Australia [NOHSC: 1008 (2004)]

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Consult physician.

Skin contact: Wash skin with soap and water. Contact physician if irritation persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact physician if irritation persists.

Ingestion: Do not induce vomiting. Contact physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes skin irritation. Direct eye contact will cause eye irritation. Excessive inhalation of vapors will irritate the eyes and respiratory tract and cause dizziness, headache and other central nervous system effects. May cause damage to the central nervous system, liver, kidneys and hearing through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. If more than 2 ml/kg has been ingested and vomiting has not occurred, emesis should be induced with supervision.

SECTION 5: FIRE-FIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: Carbon Dioxide, dry chemical or foam

Unsuitable extinguishing media: Do not use water on product.

5.2. Special hazards arising from the substance or mixture

Contact with water liberates extremely flammable gases.

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Flammability Classification: not determined

HAZCHEM Emergency Action Code: 3 **Y**

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Contain spill to a small area. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Use only in well-ventilated areas. Keep container closed when not in use. Containers must be grounded during transfer. Use non-sparking tools. Utilize exposure controls and personal protection as specified in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area. Keep container dry. Keep away from sources of ignition - No smoking.

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limit values**

Ingredients	OSHA PEL ¹		ACGIH TLV ²		UK WEL ³		AUSTRALIA ES ⁴	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Zinc	–	15	(inhal) (resp)	10 3	–	–	–	10
Xylene	100	435	100	434	50	220	80	350
			STEL:	STEL:	STEL:	STEL:	STEL:	
			150	651	100	441	150	655
Ethylbenzene	100	435	20	–	100	441	100	434
					STEL:	STEL:	STEL:	
					125	552	125	543

¹ United States Occupational Health & Safety Administration permissible exposure limits.

² American Conference of Governmental Industrial Hygienists threshold limit values.

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls**8.2.1. Engineering measures**

Provide sufficient explosion-proof ventilation to keep the vapor concentrations below the exposure limits.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator (e.g., EN filter type A/P). Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Protective gloves: Chemical resistant gloves (e.g. Viton*, neoprene, nitrile). *DuPont's registered trademark.

Xylene, Ethylbenzene:

Contact type	Glove material	Layer thickness	Breakthrough time*
Full	Viton	0.7 mm	> 480 min.
Splash	Nitrile rubber	0.4 mm	Ethylbenzene: > 10 min. Xylene: > 30 min.

*Determined according to EN374 standard.

Eye and face protection: Safety goggles.

Other: Impervious clothing as necessary for repetitive, prolonged skin contact.

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	viscous liquid	Odour	solvent odor
Colour	gray	Odour threshold	not determined
Initial boiling point	99°C (210°F)	Vapour pressure @ 20°C	not determined
Melting point	not determined	% Aromatics by weight	14.2%
% Volatile (by volume)	48.1	pH	not applicable
Flash point	26°C (78°F)	Relative density	2.88 kg/l
Method	PM Closed Cup	Weight per volume	24 lbs/gal.
Viscosity	3800-4800 cps	Coefficient (water/oil)	<1
Autoignition temperature	not determined	Vapour density (air=1)	>1
Decomposition temperature	no data available	Rate of evaporation (ether=1)	<1
Upper/lower flammability or explosive limits	0.7 LEL; 22.7 UEL	Solubility in water	negligible
Flammability (solid, gas)	not applicable	Oxidising properties	not determined
Explosive properties	not applicable		

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Open flames, heat, sparks and red hot surfaces.

10.5. Incompatible materials

Alkaline metals and Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Primary route of exposure under normal use: Inhalation, skin and eye contact. Personnel with pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Acute toxicity -**Oral:**

Based on available data on components, the classification criteria are not met. ATE-mix: 20636 mg/kg.

Substance	Test	Result
Zinc	LD50 oral rat	> 2000 mg/kg
Xylene	LD50, rat	2840 mg/kg
Ethylbenzene	LD50, rat	3500 mg/kg

Dermal:

Based on available data on components, the classification criteria are not met. ATE-mix: 14310 mg/kg.

Substance	Test	Result
Xylene	LC50, rabbit	> 4350 mg/kg
Ethylbenzene	LC50, rabbit	15354 mg/kg

Inhalation: Based on available data on components, the classification criteria are not met. ATE-mix: 82.31 mg/l (vapor). Excessive inhalation of vapors will irritate the eyes and respiratory tract and cause dizziness, headache and other central nervous system effects.

Substance	Test	Result
Xylene	LC50 inhalation, rat	28 mg/l, 4 h
Ethylbenzene	LC50 inhalation, rat	17.2 mg/l, 4 h

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data on components, the classification criteria are not met.

Carcinogenicity: The International Agency for Research on Cancer (IARC) has designated Ethylbenzene as possibly carcinogenic to humans (group 2B).

Reproductive toxicity: Based on available data on components, the classification criteria are not met.

STOT-single exposure: Based on available data on components, the classification criteria are not met.

STOT-repeated exposure: Reports have associated repeated or prolonged occupational overexposure to all solvents with permanent brain and nervous system damage. Lab animals exposed to Xylene vapor showed embryo/fetotoxic, hearing loss and liver and kidney effects.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Solvents: degradation is expected in the atmospheric environment within days to weeks; biodegradable

12.3. Bioaccumulative potential

Xylene and Ethylbenzene have a low potential for bioconcentration in aquatic organisms, based on experimental BCF values. The bioaccumulation of Zinc may be important in aquatic environments.

12.4. Mobility in soil

Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Solvents (Xylene, Ethylbenzene): will rapidly evaporate to the air if released into the environment; expected to have moderate to high mobility in soils. Zinc: expected to exhibit low mobility in soil.

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incinerate absorbed material with a properly licensed facility. Unused product is amenable to incineration or fuels blending. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

ADR/RID/ADN/IMDG/ICAO: UN1263
TDG: UN1263
US DOT: UN1263

14.2. UN proper shipping name

ADR/RID/ADN/IMDG/ICAO: PAINT
 TDG: PAINT
 US DOT: PAINT

14.3. Transport hazard class(es)

ADR/RID/ADN/IMDG/ICAO: 3
 TDG: 3
 US DOT: 3

14.4. Packing group

ADR/RID/ADN/IMDG/ICAO: III
 TDG: III
 US DOT: III

14.5. Environmental hazards

MARINE POLLUTANT

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

NOT APPLICABLE

14.8. Other information

US DOT: ERG NO.127

May be shipped as Limited Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages not over 5 Liters (49 CFR 173.150(b,3)).

IMDG: EmS. F-E, S-E

ADR: Classification code F1 , Tunnel restriction code (D/E)

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU regulations**

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations: Directive 94/33/EC on the protection of young people at work.

15.1.2. National regulations**US EPA SARA TITLE III****312 Hazards:**

Immediate
 Fire
 Delayed

313 Chemicals:

Zinc	7440-66-6	70-80%
Xylene	1330-20-7	10-15%
Ethylbenzene	100-41-4	1-3%

Other national regulations: National implementation of the EC Directive referred to in section 15.1.1.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
ES: Exposure Standard
GHS: Globally Harmonized System
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LC50: Lethal Concentration to 50 % of a test population
LD50: Lethal Dose to 50% of a test population
LOEL: Lowest Observed Effect Level
N/A: Not Applicable
NA: Not Available
NOAEL: No Observed Adverse Effect Level
NOEL: No Observed Effect Level
OECD: Organization for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic substance
(Q)SAR: Quantitative Structure-Activity Relationship
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
STOT RE: Specific Target Organ Toxicity, Repeated Exposure
STOT SE: Specific Target Organ Toxicity, Single Exposure
TDG: Transportation of Dangerous Goods (Canada)
US DOT: United States Department of Transportation
vPvB: very Persistent and very Bioaccumulative substance
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System
Other abbreviations and acronyms can be looked up at www.wikipedia.org.

Key literature references and sources for data: Commission de la santé et de la sécurité du travail (CSST)
Chemical Classification and Information Database (CCID)
European Chemicals Agency (ECHA) - Information on Chemicals
Hazardous Substances Information System (HSIS)
National Institute of Technology and Evaluation (NITE)
Swedish Chemicals Agency (KEMI)
U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008:

Classification	Classification procedure
Flam. Liq. 3, H226	On basis of test data
STOT RE 2, H373I	Bridging principle "Dilution"
Skin Irrit. 2, H315	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Relevant H-statements: H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H373H: May cause damage to hearing through prolonged or repeated exposure.
H335: May cause respiratory irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictogram names: Flame, health hazard, exclamation mark, environment

Changes to the SDS in this revision: Section 5.1.

Revision date: 27 October 2015

Further information: None

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.