

SECTION 1. IDENTIFICATION

GHS product identifier Durall 10 (Part A)

Other means of identification Solid

Product Type CoorsTek, Inc.
16000 Table Mountain Parkway

Supplier's details Golden, CO 80403
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(with hours of operation) 8am-5pm MDT (M-F)

SECTION 2. HAZARDS IDENTIFICATION

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture ACUTE TOXICITY (oral) - Category 4
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category2B

GHS LABEL ELEMENTS
Hazard pictograms


Signal word Warning

Hazard statements Harmful if swallowed.
Causes skin and eye irritation.

PRECAUTIONARY STATEMENTS

General Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.
Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

SECTION 2. HAZARDS IDENTIFICATION CONTINUED

Storage Not applicable

Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Other means of identification Not available.

CAS NUMBER/OTHER IDENTIFIERS

CAS number Not applicable

Product code Not available

Ingredient name	%	CAS Number
Bisphenol A Epoxy Resin	30 - 60	25068-38-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

- Eye contact** Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute.
- Inhalation** In case of exposure to high concentration of vapor or mist, remove person to fresh air.
- Skin contact** Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur.
- Ingestion** Washout mouth with water.If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Potential acute health effects

- Eye contact** Causes serious eye irritation.
- Inhalation** No known significant effects or critical hazards.
- Skin contact** Causes skin irritation.
- Ingestion** Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** No known significant effects or critical hazards
- Skin contact** Adverse symptoms may include the following:
irritation
redness
- Ingestion** No known significant effects or critical hazards.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

- Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** No specific treatment

SECTION 4. FIRST AID MEASURES CONTINUED

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical May produce hazardous fumes or hazardous decomposition products.

Hazardous thermal decomposition products Carbon Monoxide, Carbon Dioxide and Phenolics.

Special protective actions for fire-fighters No special measures are required.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS,
PROTECTIVE EQUIPMENT &
EMERGENCY PROCEDURES****For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**METHODS & MATERIALS FOR
CONTAINMENT AND CLEANING UP****Spill**

Ensure adequate ventilation. Absorb with an inert material and place in an appropriate waste disposal container. Prevent entry into sewers, water courses, basements or confined areas. Wear suitable protective clothing. Note: see Section 1 for emergency.

SECTION 7. HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING****Protective measures**

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage,
including any incompatibilities**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**CONTROL PARAMETERS**

Occupational exposure limits	None.
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

INDIVIDUAL PROTECTION MEASURES

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location

Eye/face protection Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shields when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

SKIN PROTECTION

Hand protection Nitrile gloves when handling material.

Body protection Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Solid. [Paste.]
Color	Olive
Odor	Sweet
Odor threshold	Not applicable
pH	Not applicable
Melting point	Not available
Boiling point	Not available
Flash point	Closed cup: >196.11°C (>385°F) [Setaflash]
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.2
Solubility	Insoluble in the following materials: cold water and hot water
Partition coefficient: n- octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
SADT	Not available
Viscosity	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	High heat, amines, strong oxidizers acids and bases.
Incompatible materials	Strong oxidizers, epoxy resin, and amine mixtures especially when hot.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	There is no data available.
Irritation/Corrosion	There is no data available
Sensitization	
Mutagenicity	There is no data available
Carcinogenicity	There is no data available
Reproductive toxicity	There is no data available
Teratogenicity	There is no data available
Specific target organ toxicity (single exposure)	There is no data available
Specific target organ toxicity (repeated exposure)	There is no data available
Aspiration hazard	There is no data available
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal.

POTENTIAL ACUTE HEALTH EFFECTS

Eye contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards

SECTION 11. TOXICOLOGICAL INFORMATION CONTINUED

Skin contact Causes skin irritation.

Ingestion Harmful if swallowed. Irritating to mouth, throat and stomach.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eye contact Adverse symptoms may include the following:
pain or irritation
watering redness

Inhalation No known significant effects or critical hazards.

Skin contact Adverse symptoms may include the following:
irritation
redness

Ingestion No known significant effects or critical hazards.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

SHORT TERM EXPOSURE

Potential immediate effects No known significant effects or critical hazards.

Potential delayed effects No known significant effects or critical hazards

LONG TERM EXPOSURE

Potential immediate effects No known significant effects or critical hazards

Potential delayed effects No known significant effects or critical hazards

POTENTIAL CHRONIC HEALTH EFFECTS

General No known significant effects or critical hazards

Carcinogenicity No known significant effects or critical hazards

Mutagenicity No known significant effects or critical hazards

Teratogenicity No known significant effects or critical hazards

Developmental effects No known significant effects or critical hazards

Fertility effects No known significant effects or critical hazards

SECTION 11. TOXICOLOGICAL INFORMATION CONTINUED

NUMERICAL MEASURE OF TOXICITY

Acute toxicity estimates

Route	ATE Value
Oral	1000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Toxicity There is no data available

Persistence and degradability There is no data available

Bioaccumulative potential

MOBILITY IN SOIL

Soil/water partition coefficient (K_{oc}) Not available

Other adverse effects No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN Number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

Special precautions for user **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602
Class I Substances Not listed
Class II Substances Not listed

DEA List I Chemicals (Precursor Chemicals) Not listed

DEA List II Chemicals (Essential Chemicals) Not listed

SARA 302/304 Not listed

SARA 304 RQ Not applicable

SARA 311/312

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Bisphenol A EpoxyResin	30 - 60	No	No	No	No	No

SECTION 15. REGULATORY INFORMATION CONTINUED
STATE REGULATIONS

Massachusetts	None of the components are listed
New York	None of the components are listed
New Jersey	None of the components are listed
Pennsylvania	None of the components are listed
California Prop. 65	None of the components are listed

INTERNATIONAL REGULATIONS

International lists	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	Not listed
Chemical Weapons Convention List Schedule II Chemicals	Not listed
Chemical Weapons Convention List Schedule III Chemicals	Not listed

SECTION 16. OTHER INFORMATION

Hazardous Material Information System(U.S.A.)

Health : 1

Flammability : 1

Physical hazards : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 1

Flammability : 1

Physical hazards : 0

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HISTORY 07/15/2014

Date of issue mm/dd/yyyy 1

Version Not applicable.

Revised Section KMK Regulatory Services Inc.

Prepared by ATE = Acute Toxicity Estimate

Key to abbreviations

- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

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