

SECTION 1. IDENTIFICATION

GHS product identifier Durall 10 (Part A)

Other means of identification Not available

Product type Solid

**RELEVANT IDENTIFIED USES OF THE
SUBSTANCE OR MIXTURE AND USES
ADVISED AGAINST**

Identified uses 2-part epoxy

Supplier's details CoorsTek, Inc
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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 IRRITATION - Category 2
EYE IRRITATION - Category 2A

GHS LABEL ELEMENTS

Hazard pictograms



Signal word Warning

Hazard statements H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H315 - Causes skin irritation

SECTION 2. HAZARDS IDENTIFICATION CONTINUED

PRECAUTIONARY STATEMENTS

- Prevention** P280 - Wear protective gloves. Wear eye or face protection.
P270 - Do not eat, drink, or smoke when using this product.
P264 - Wash hands thoroughly after handling.
- Response** P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.
- Storage** Not applicable
- Disposal** P501 - 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	28604-14-4

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

There are no 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** Wash out 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

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
- 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 firefighters No special measures are required.

Special protective equipment for firefighters Firefighters 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 AND 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 nonemergency 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 AND 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 contact information and Section 13 for waste disposal.

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 environmental contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Occupational exposure limits

INGREDIENT NAME	EXPOSURE LIMITS
Bisphenol A Epoxy Resin	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 Based on the hazard and potential for exposure select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE**

Physical state	Solid [Paste]
Color	Olive
Odor	Sweet
Odor threshold	Not available
pH	Not available
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
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

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	There is no data available.
Irritation/Corrosion	There is no data available.
Sensitization	There is no data available.
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 Dermal contact, eye contact, ingestion

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

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

SECTION 11. TOXICOLOGICAL INFORMATION CONTINUED

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

NUMERICAL MEASURES 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** There is no data available.
- 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	-	-	-

AERG : Not applicable

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.

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 United States inventory (TSCA 8b): All components are listed or exempted.

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

Clean Air Act Section 602 Class I Substances Not listed

Clean Air Act Section 602 Class II Substances Not listed

DEA List I Chemicals (Precursor Chemicals) Not listed

DEA List II Chemicals (Essential Chemicals) Not listed

SARA 302/304

Composition/information on ingredients No products were found.

SARA 304 RQ Not applicable

SARA 311/312

Classification Immediate (acute) health hazard

Composition/information on ingredients

NAME	%	FIRE HAZARD	SUDDEN RELEASE OF PRESSURE	REACTIVE	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD
Bisphenol A	≥50 - ≤75	No	No	No	Yes	No
Epoxy Resin						

SECTION 15. REGULATORY INFORMATION CONTINUED

SARA 313 There is no data available.

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 No products were found.

SECTION 16. OTHER INFORMATION

Procedure used to derive the classification

CLASSIFICATION	JUSTIFICATION
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method

HISTORY

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Prepared by KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.