



German metal Surface treatment Chemicals Co.
Research and Development Department
Paints Division.

Safety Data Sheet

According to 1907/2006/EC , Article 31

1 - Identification of the substance/preparation and of the company/undertaking

Product details

- Trade name: **Dura Epoxy Top Coat.**
- Manufacturer/Supplier:
German Surface treatment chemicals Co.
AL Fawzan industry Area
Riyadh
Saudi Arabia Kingdom
amirqasqas@sugest.com.sa
- Further information obtainable from: Product safety department
- Information in case of emergency: During normal opening times: +966 11 4647711

2. Hazards identification

EMERGENCY OVERVIEW: MAY BE TOXIC AND HARMFUL IF INHALED
MAY BE SLIGHTLY TOXIC AND OR HARMFUL IF ABSORBED THROUGH SKIN
MAY CAUSE SEVERE EYE IRRITATION
MAY CAUSE RESPIRATORY TRACT IRRITATION
MAY BE IRRITATING TO SKIN
MAY BE IRRITATING TO THE GASTROINTESTINAL TRACT
MAY PRODUCE DAMAGE TO RED BLOOD CELLS
MAY CAUSE SKIN SENSITIZATION

PRIMARY ROUTES OF ENTRY: EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.



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HEALTH HAZARDS (ACUTE AND CHRONIC EXPOSURES) EYES:

ACUTE – SEVERE IRRITANT. MAY CAUSE BURNS. VAPOR MAY CAUSE LACRIMATION AND REVERSIBLE CORNEAL EDEMA.

CHRONIC– CONJUNCTIVITIS OR CORNEAL DAMAGE.

SKIN CONTACT:

ACUTE – UNDILUTED PRODUCT QUICKLY CAUSES IRRITATION.

CHRONIC – MAY CAUSE ALLERGIC REACTION/SENSITIZATION, DEFATTING OF SKIN, RASH AND IRRITATION.

SKIN ABSORPTION:

ACUTE – ND

CHRONIC – ND

INHALATION:

ACUTE – VAPORS MAY CAUSE DAMAGE TO CONTACTED TISSUE AND PRODUCE SCARRING.

CHRONIC- REPEATED AND/OR PROLONGED EXPOSURES CAN CAUSE TIGHTNESS OF CHEST, SHORTNESS OF BREATH AND COUGH.

INGESTION:

ACUTE – MAY CAUSE IRRITATION AND BLEEDING OF THE GASTROINTESTINAL TRACT

CHRONIC – SCARRING OF THE AFFECTED TISSUES MAY OCCUR.

CONDITIONS AGGRAVATED BY EXPOSURE: ASTHMA; BRONCHITIS, EMPHYSEMA; EYE DISEASE; SKIN DISORDERS AND ALLERGIES.

OVEREXPOSURE EFFECTS: LACRIMATION OF EYES, SKIN IRRITATION, DIZZINESS.

IRRITANCY: YES

SENSITIZER: YES



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3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
ALIPHATIC AMINE	10-30	TRADE SECRET
2-PROPOXYETHANOL	5-10	002807-30-9
ACETIC ACID	1-5	000064-19-7
TITANIUM DIOXIDE	0-20	013463-67-7
IRON (III) OXIDE	0-10	001309-37-1
CARBON BLACK	0-10	001333-86-4

4: FIRST AID MEASURES

GENERAL: REMOVE AFFECTED PERSON FROM AREA. TREAT SYMPTOMATICALLY.

EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. VICTIMS OF MAJOR SKIN AREA CONTACT SHOULD REMAIN UNDER MEDICAL OBSERVATION FOR 24 HOURS.

INHALATION: MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

INGESTION: GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. **DO NOT INDUCE**

VOMITING! OBTAIN MEDICAL CARE AND TREATMENT.



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5: FIRE FIGHTING MEASURES

FLASH POINT: >93°C (>199°F) – PMCC OSHA CLASS: III B

CONDITIONS OF FLAMMABILITY: NA **AUTO IGNITION TEMP.:** NA

FLAMMABLE LIMITS: LEL: NE UEL: NE **SENSITIVITY TO IMPACT:** NONE

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, NH₃. NITROGEN OXIDES CAN BE PRODUCED IF HEATED, BURNED OR REACTED WITH INCOMPATIBLE MATERIALS. NITROGEN OXIDES CAN REACT WITH WATER VAPORS TO FORM CORROSIVE NITRIC ACID.

SENSITIVITY TO STATIC DISCHARGE: NONE

EXTINGUISHING MEDIA: IN CASE OF FIRE USE: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: NONE LIKELY WITH SMALL QUANTITIES. FOR LARGE QUANTITIES, FIREFIGHTERS AND OTHERS EXPOSED TO VAPORS OR PRODUCTS OF COMBUSTION SHOULD WEAR BUTYL RUBBER BOOTS, GLOVES AND BODY SUIT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS. SUDDEN REACTION AND FIRE MAY RESULT IF PRODUCT IS MIXED WITH AN OXIDIZING AGENT.

6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.



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7: HANDLING AND STORAGE

Oil based Paints and Solvents are 'Hazardous Wastes' and as such are subject to much stricter regulations for storage and disposal than ordinary products / waste.

We must ensure that the following rules are followed:

- Paints and Solvents are to be stored in approved containers and areas on drip trays or bunded pallets
- Containers are to be kept closed when not in use
- When transporting paints or solvents ensure the containers are closed.
- Ensure incompatible chemical products (those which may cause a hazardous reaction if they come in contact) are not stored together.
- Smoking is prohibited in flammable liquid storage areas.
- Flammable liquids are not to be stored near sources of ignition (sparks, electricity, flames or hot objects)
- When containers are empty they must be disposed of correctly, by a hazardous waste licensed carrier.
- All paints and solvent tins/containers should be clearly marked.
- Storing temperature not exceed more than 37 Celsius.
- The transportation trucks and vehicles must be covered well to isolate the coatings pails and tins from direct sunlight.
- The pails and tins must be stored in dry paces away from high humidity.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS (ppm)

INGREDIENTS (CAS)	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
ALIPHATIC POLYAMINE	NE	NE	NE	NE	
002807-30-9	NE	NE	NE	NE	
000064-19-7	10	25	10	15	
013463-67-7	10mg/m3	ND	10mg/m3	ND	(SEE NOTE 1)
001309-37-1	5mg/m3	ND	5mg/m3	ND	(SEE NOTE 1)
001333-86-4	3.5mg/m3	ND	3.5mg/m3	ND	(SEE NOTE 1)

LEGEND: (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK

NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.



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ENGINEERING CONTROLS: NO SPECIFIC CONTROLS NEEDED. GENERAL AND LOCAL EXHAUST RECOMMENDED.

RESPIRATORY PROTECTION: NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF CONCENTRATION EXCEEDS 20ppm FOR LONGER THAN 15 MINUTES, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

PROTECTIVE GLOVES: NITRILE RUBBER.

EYE PROTECTION: SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >100°C (>212°F)

SPECIFIC GRAVITY: 1.00-1.10

VAPOR PRESSURE: ND

MELTING POINT: 0°C (32°F)

VAPOR DENSITY: ND

EVAPORATION RATE: ND
(AIR = 1) (BUTYL ACETATE = 1)

SOLUBILITY IN WATER: <1%

pH: NE (ALKALINE)

COEFFICIENT of WATER/OIL DISTRIBUTION: ND

ODOR THRESHOLD: ND

APPEARANCE AND ODOR: PIGMENTED VISCOUS LIQUID. AMMONIACAL ODOR.

% VOLATILES BY VOLUME: 71%

% SOLIDS BY WEIGHT: 42%



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10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID ELEVATED TEMPERATURES

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZING AGENTS (PEROXIDES, NITRATES),
ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN

HAZARDOUS POLYMERIZATION (REACTIVITY): WILL NOT OCCUR

11: TOXICOLOGICAL INFORMATION

CARCINOGENIC DATA: NTP: NONE

OSHA: NONE

IARC: NONE

TERATOGENICITY: NONE LISTED

MUTAGENICITY: NONE LISTED

EMBRYOTOXICITY: NONE LISTED

SYNERGISTIC MATERIAL: NONE LISTED

ACUTE TOXICITY EFFECTS: ORAL LD₅₀ (rats): 3089mg/kg. NO DATA FOR INHALATION EFFECTS.

12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NOT READILY BIODEGRADABLE

ECOTOXICITY: ND



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13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: IF THIS MATERIAL BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE BY RCRA CRITERIA (40 CFR 261). PLACE IN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL AND FEDERAL REGULATIONS.

14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED
UN NUMBER: NA
DOT PRODUCT RQ LBS (KGS): NA

HAZARD CLASS: NA
PACKAGING GROUP: NA
HAZARD LABEL: NA

HAZARD PLACARD: NA

IMO SHIPPING DATA: NOT REGULATED

ICAO/IATA SHIPPING DATA: NOT REGULATED

ADDITIONAL INFORMATION: NONE



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15: REGULATORY INFORMATION

VOC: COMPONENT: 63 grams/Liter **AS APPLIED:** 50 grams/Liter (PART OF MULTI-COMPONENT SYSTEM)

TSCA (TOXIC SUBSTANCE CONTROL ACT): ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT): ND
SARA TITLE III

SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

SECTION 313 LISTED INGREDIENTS: NONE ABOVE de Minimus LEVELS

16: OTHER INFORMATION

CALIFORNIA PROPOSITION 65: THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: CAS # 013463-67-7, CAS # 001333-86-4

INITIAL ISSUE DATE: FEBRUARY 21,2013 **REVISION DATE:** **PREPARED BY:** Mr. Taha Manzoor

HAZARD RATING

HMIS: **HEALTH** 2 **FLAMMABILITY** 1 **REACTIVITY** 0
LEGEND

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
STEL: SHORT TERM EXPOSURE LIMIT
TWA: TIME WEIGHTED AVERAGE
PEL: PERMISSIBLE EXPOSURE LIMIT
TLV: THRESHOLD LIMIT VALUE
NA: NOT APPLICABLE
NE: NOT ESTABLISHED
ND: NO DATA