



**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 Thinner Retardant**

· Manufacturer/Supplier:

German Surface treatment chemicals Co.

AL Fawzan industrial Area

Riyadh

Saudi Arabia Kingdom

info@sugest.com.sa

· Further information obtainable from: Product safety department

· Information in case of emergency: During normal opening times: +966 1 4647711

2. Hazards identification

**Classification of the
substance or mixture**

FLAMMABLE LIQUIDS - Category 2

ACUTE TOXICITY: ORAL - Category 4

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

TOXIC TO REPRODUCTION [Unborn child] - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] -
Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION -
Category 2

ASPIRATION HAZARD - Category 1

AQUATIC TOXICITY (ACUTE) - Category 2

AQUATIC TOXICITY (CHRONIC) - Category 3



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GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements

Highly flammable liquid and vapor.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

Suspected of damaging the unborn child.

May be fatal if swallowed and enters airways.

May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure if inhaled.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention : Obtain special instructions before use. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all materialhandling equipment. Avoid release to the environment. Do not breathe vapor.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Immediately call a POISON CENTER or physician.

Storage : Keep cool.

Disposal : Not applicable.



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3. Composition/information on ingredients

Substance/mixture

CAS number/other identifiers :

Mixture

CAS number :

Not applicable.

EC number :

Mixture.

Product code :

Dura Thinner Retardant

Ingredient name	%	CAS number
Butyl Glycol	10 - 15	111-76-2
Solvesso 100 (Naphtha 100)	40-55	64742-95-6

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.



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4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.



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**Most important symptoms/effects, acute and delayed
Potential acute health effects**

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms :

Eye contact : Adverse symptoms may include the following:

- pain
- watering
- redness

Inhalation : Adverse symptoms may include the following:

- nausea or vomiting
- headache
- drowsiness/fatigue
- dizziness/vertigo
- unconsciousness
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Skin contact : Adverse symptoms may include the following:

- pain or irritation
- redness
- blistering may occur
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations



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Ingestion : Adverse symptoms may include the following:

- stomach pains
- nausea or vomiting
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing Media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical :

Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.



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Hazardous thermal

decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions

for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. without

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 pressure mode. positive

Personal precautions, protective equipment and emergency procedures

For non-emergency

Personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.



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7. Handling and storage

Precautions for safe

Handling : Put on appropriate personal protective equipment (see Section 8). 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. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any

incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

- Temperature not exceeds more than 30 Celsius.



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Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Butyl Glycol	ACGIH TLV (United States, 1/2008). 651 mg/m ³ 15 minute(s). 15 minute(s). hour(s). hour(s). STEL: STEL: 150 ppm TWA: 434 mg/m ³ 8 TWA: 100 ppm 8
Solvesso 100 (Naphtha 100)	ACGIH TLV (United States, 1/2008). STEL: 125 ppm 15 minute(s). 100 ppm 8 hour(s). TWA:



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Recommended monitoring

Procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

8. Exposure controls/personal protection

Appropriate engineering

Controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure

Controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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 : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.



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Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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, air-purifying or air-fed 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

9. Physical and chemical properties

S.N	TEST	LIMITS
1	PHYSICAL APPEARANCE	Transparent coloremless liquid
2	DENSITY ,(gm/cm ³)	0.88 ±0.02



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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 : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials: Reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition

Products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Butyl Glycol	Eyes - Moderate irritant	Rabbit	24 hours 100 Milligrams	—	—
	Eyes - Severe irritant	Rabbit	100 Milligrams	—	—
	Skin - Mild irritant	Rabbit	500 milligrams	—	—



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Sensitization

Not available.

Mutagen city

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvesso 100 (naphta 100)	Category 3	Not determined	Respiratory tract irritation and Narcotic effects
Butyl Glycol	Category 3	Not determined	Respiratory tract irritation



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Aspiration hazard

Name	Result
Solvesso 100	ASPIRATION HAZARD - Category 1
Butyl Glycol	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure : Not available

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

- pain
- watering
- redness

Inhalation : Adverse symptoms may include the following:

- nausea or vomiting
- headache
- drowsiness/fatigue
- dizziness/vertigo
- unconsciousness
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations



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Skin contact : Adverse symptoms may include the following:

- pain or irritation
- redness
- blistering may occur
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Ingestion : Adverse symptoms may include the following:

- stomach pains
- nausea or vomiting
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

General : May cause damage to organs through prolonged or repeated exposure if inhaled.

Carcinogenicity : No known significant effects or critical hazards.

Mutagen city : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

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	831,3 mg/kg
Dermal	7450,2 mg/kg
Inhalation (gases)	39131,3 ppm
Inhalation (vapors)	51,16 mg/l
Inhalation (dusts and mists)	13,04 mg/l



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12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Butyl Glycol	Acute LC50 8500 ug/L Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 3,3 mg/L	Pugio Fish	48 hours



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Product/ingredient name	Result	Species	Exposure
Butyl Glycol	Acute EC50 7,2 mg/L	Algae	48 hours
	Acute EC50 2,93 mg/L	Daphnia	48 hours
	Acute EC50 2,97 mg/L	Daphnia	48 hours
	Acute LC50 >5200 ug/L Marine water	Crustaceans – Americamysis bahia - <24 hours	48 hours
	Acute LC50 4,2 mg/L	Fish	96 hours
	Acute LC50 9,09 mg/L	Fish	96 hours
	Acute LC50 9,6 mg/L	Fish	96 hours
	Chronic NOEC 3300 ug/L Marine water	Fish - Menidia menidia	96 hours
Solvesso 100	Acute LC50 17000 ug/L Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 7,72 mg/L	Fish	96 hours

Persistence and degradability

Not available.

Mobility in soil

Soil/water partition




coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.



13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. 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 emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3 	3 	3 
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Special precautions for user	Not available.	Not available.	Not available.
Additional information	—	—	—

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

Not available.



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15. Regulatory information

**Safety, health and
environmental regulations**

specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

16. Other information

Date of issue/Date of

Revision : 18-08-2011.

Key to abbreviations : ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

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)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

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.