Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/09/2021 Supersedes: 10/15/2015 Version: 1.1

SDS No: 0448-0001

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : IP-Cleaning wipes

1.2. Recommended use and restrictions on use

Use of the substance/mixture : IP-Cleaning wipes are cleaning wipes for cleaning Dürr NDT image plates.

1.3. Supplier

Manufacturer

orochemie GmbH + Co. KG Max-Planck-Str. 27 Kornwestheim, 70806

T +49 7154 1308-0 - F +49 7154 1308-43

Supplier

Dürr NDT GmbH & Co KG Höpfigheimer Straße 22 Bietigheim-Bissingen, 74321

T +49 (0) 7142 993810 - F +49 (0) 7142 99381 299

info@duerr-ndt.de

1.4. Emergency telephone number

Emergency number : INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable solids Category 1 H228 Flammable solid

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation.

Specific target organ toxicity — Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H228 - Flammable solid

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protec tion.

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 advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Wipe, tinctured with clear cleaning solution

Name	Product identifier	%	GHS US classification
Propan-2-ol	CAS-No.: 67-63-0		Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not give an unconscious person anything to drink.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. carbon dioxide (CO2), powder, hazy water.

Unsuitable extinguishing media : high volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable solid.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self -contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and

eves.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing

dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Keep away from ignition sources. Store in a well -ventilated place. Keep container

tightly closed.

Incompatible products : Oxidizing agent. Self-igniting materials.

Storage temperature : ≥ 5 °C

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

IP-Cleaning wipes		
No additional information available	No additional information available	
Propan-2-ol (67-63-0)	Propan-2-ol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits		
Local name 2-Propanol		
ACGIH OEL TWA 490 mg/m³		
ACGIH OFI TWA [npm]	200 ppm	

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Propan-2-ol (67-63-0)			
ACGIH OEL STEL	960 mg/m³		
ACGIH OEL STEL [ppm]	400 ppm		
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
ACGIH chemical category	Not Classifiable as a Human Carcinogen		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)		
USA - OSHA - Occupational Exposure Limits	USA - OSHA - Occupational Exposure Limits		
Local name	Isopropyl alcohol		
OSHA PEL (TWA) [1]	980 mg/m³		
OSHA PEL (TWA) [2]	400 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
USA - IDLH - Occupational Exposure Limits			
IDLH [ppm]	2000 ppm (10% LEL)		
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL (TWA)	980 mg/m³		
NIOSH REL TWA [ppm]	400 ppm		
NIOSH REL (STEL)	1225 mg/m³		
NIOSH REL STEL [ppm]	500 ppm		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm. Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE -label including the four control digits. AUS/NZ: Wear impervious rubber gloves (AS2161).

Eye protection:

Protective goggles (EN 166)

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

Not required for normal conditions of use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Wipe, tinctured with clear cleaning solution.

Color : white Odor : alcoholic

Odor threshold : No data available pH : No data available

Melting point : Not specifically applicable Freezing point : Not specifically applicable

Boiling point No data available Flash point Not relevant Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Flammable solid. Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density No data available Water: Not relevant Solubility Log Pow No data available Auto-ignition temperature Combustible

Decomposition temperature : Not specifically applicable

Viscosity, kinematic : No data available Viscosity, dynamic : No data available

Explosion limits : Lower explosive limit (LEL): Not specifically applicable

Upper explosive limit (UEL): Not specifically applicable

Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable solid.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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10.5. Incompatible materials

No additional information available

IP-Cleaning wines

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ii -oleaning wipes	
ATE US (oral)	5280 mg/kg body weight
ATE US (dermal)	12800 mg/kg body weight
Propan-2-ol (67-63-0)	
ATE US (oral)	5050 mg/kg body weight
ATE US (dermal)	12800 mg/kg body weight
ATE US (vapors)	72.5 mg/l/4h
ATE US (dust, mist)	73 mg/l/4h
Skin correcion/irritation :	Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

Propan-2-ol (67-63-0)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long -term adverse

effects in the environment.

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing

may be taken for reuse.

SECTION 14: Transport information

Product/Packaging disposal recommendations

In accordance with Verkehrsministerium / Gefahrguttransporte / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
3175	UN3175	3175	3175
14.2. Proper Shipping Name			
Solids containing flammable liquid, n.o.s.	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	Solids containing flammable liquid, n.o.s.
14.3. Transport hazard class(es	5)		
4.1	4.1	4.1	4.1
FAMALE SOLD			
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN3175

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DOT Special Provisions (49 CFR 172.102)

: 47 - Mixtures of solids that are not subject to this subchapter and flammable liquids may be transported under this entry without first applying the classification criteria of Division 4.1, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Except when the liquids are fully absorbed in solid material contained in sealed bags, each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level. S mall inner packaging consisting of sealed packets containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed into a solid material are not subject to this subchapter provided there is no free liquid in the packet. IB6 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2). Additional Requirement: Composite IBCs 11HZ2 and 21HZ2 may not be used when the hazardous materials being transported may become liquid during transport. IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

T3 - 2.65 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure -relief devices or bottom outlets are assigned in which case the more stringen t tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 151
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 240
DOT Quantity Limitations Passenger aircraft/rail (49 : 15 kg

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Stowage Location

: 50 kg

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not mor e than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

TDG

UN-No. (TDG) : UN3175

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TDG Special Provisions

- : 16 (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document fo llowing the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:
 - (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
 - (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
 - (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
 - (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
 - (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.
 - (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:
 - (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
 - (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS,56 (1) When solids that are not dangerous goods, and liquids included in Class 3, Flammable Liquids, are in a mixtu re, the mixture may be handled, offered for transport or transported under this shipping name without the tests and criteria for including substances in Class 4.1, Flammable Solids, first being applied
 - (a) there is no visible liquid at the time the mixture is loaded into a means of containment or at the time the means of containment is closed; and
 - (b) each means of containment is leakproof.
 - (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to a sealed packet or article containing less than 10 mL of dangerous goods included in Class 3, Flammable Liquids, packing group II or III, if there is no free liquid in the packet or article.

Explosive Limit and Limited Quantity Index

Excepted quantities (TDG) Passenger Carrying Road Vehicle or Passenger

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number

: 1 kg : E2 : 15 kg

: 133

IMDG

Special provision (IMDG) : 216, 274 1 kg Limited quantities (IMDG) Excepted quantities (IMDG) E2 Packing instructions (IMDG) P002 Packing provisions (IMDG) PP9 IBC packing instructions (IMDG) IBC06 IBC special provisions (IMDG) B21 Tank instructions (IMDG) : T3, BK2 Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-I - SPILLAGE SCHEDULE India - FLAMMABLE SOLIDS (REPACKING POSSIBLE)

Stowage category (IMDG) : B

IATA

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) Y441 PCA limited quantity max net quantity (IATA) 5kg PCA packing instructions (IATA) 445 15kg PCA max net quantity (IATA) CAO packing instructions (IATA) 448

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CAO max net quantity (IATA) : 50kg Special provision (IATA) : A46 ERG code (IATA) : 3L

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthoriza tion Act (SARA) of 1986 and 40 CFR Part 372.

Propan-2-ol CAS-No. 67-63-0 60 - 100%

15.2. International regulations

CANADA

Propan-2-ol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Propan-2-ol(67-63-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York - Occupational Exposure Limits - TWAs; U.S California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases	
H225	Highly flammable liquid and vapor

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Full text of H-phra	Full text of H-phrases	
H228	Flammable solid	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness	

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	

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Abbreviations and acronyms	
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.