Diversey
A SOLENIS COMPANY

Safety Data Sheet

Taski Nobile Plus

Revision: 2025-02-14 **Version:** 02.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: Taski Nobile Plus

1.2 Recommended use and restrictions on use
See product label.
For professional use only.

1.3 Details of the supplier of the safety data sheet
SOLENIS VIETNAM COMPANY LIMITED

Contact details
Level 4&5, M-Building, Lot C7B-02A, Block A, No.9 Street 8, Zone Saigon South New Urban Area, Tan Phu Ward, District 7, Ho Chi Minh City, VIETNAM
Tel. 0314996293

1.4 Emergency telephone number
In case of medical emergency, please seek professional medical advice.

SECTION 2: Composition/information on ingredients

2.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
aluminium oxide	1344-28-1	215-691-6		30-50
potassium hydrogen oxalate	127-95-7	204-873-0	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312)	20-30
oxalic acid	144-62-7	205-634-3	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312) Serious eye damage, Category 1 (H318)	10-20
sulphur	7704-34-9	231-722-6	Skin irritation, Category 2 (H315)	3-10
diammonium oxalate monohydrate	6009-70-7	214-202-3	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312)	3-10

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture
Serious eye damage, Category 1
Acute toxicity, oral, Category 4
Acute toxicity, skin, Category 5
Skin irritation, Category 3

3.2 Label elements

Signal word: Danger.

Hazard statements:
H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H316 - Causes mild skin irritation.
H318 - Causes serious eye damage.

Precautionary statements:
P280 - Wear eye or face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

3.3 Other hazards
No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

3.4 Classification diluted product
Recommended maximum concentration (% w/w): 66

Acute toxicity, oral, Category 4
Acute toxicity, skin, Category 5
Skin irritation, Category 3
Serious eye damage, Category 1
Corrosive to metals, Category 1

3.5 Label elements diluted product

Signal word: Danger.

Hazard statements:
H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H316 - Causes mild skin irritation.
H318 - Causes serious eye damage.
H290 - May be corrosive to metals.

Precautionary statements:
P280 - Wear eye or face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:	Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. Call a POISON CENTRE, doctor or physician if you feel unwell.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Call a POISON CENTRE, doctor or physician. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	No known effects or symptoms in normal use.
Eye contact:	Causes severe or permanent damage.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture
No special hazards known.

5.3 Advice for firefighters
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear eye/face protection.

6.2 Environmental precautions
Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up
Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advice on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with eyes. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)
aluminium oxide	2.0 mg/m³	4 mg/m³
oxalic acid	1 mg/m³	2 mg/m³

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 16321).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 66

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 16321).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical state: Solid	
Appearance: Powder	
Colour: Opaque , Light , from Yellow to Yellow	
Odour: Sulfur	
Odour threshold: Not applicable	
pH: Not applicable	
Dilution pH: ≈ 3 (66 %)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	Not applicable to solids or gases
Flammability (liquid): Not applicable.	
Flash point (°C): Not applicable.	
Sustained combustion: Not applicable.	
(UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not determined	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: Not determined	
Relative density: ≈ 0.94 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: No data available.	Not applicable to solids
Particle characteristics: Not determined.	Not relevant to classification of this product.
Solubility in / Miscibility with water: Soluble	
Partition coefficient: n-octanol/water No information available.	

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined	
Decomposition temperature: Not applicable.	
Kinematic viscosity: Not applicable to solids or gases	
Explosive properties: Not explosive.	
Oxidising properties: Not oxidising.	

9.2 Other information

Surface tension (N/m): Not determined	
Corrosion to metals: Not determined	Not applicable to solids or gases

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

10.5 Incompatible materials
None known under normal use conditions.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data: .

Relevant calculated ATE(s):
ATE - Oral (mg/kg): 800
ATE - Dermal (mg/kg): 3000

Substance data, where relevant and available, are listed below:.

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate		375			-
oxalic acid	LD_{50}	375	Rat	Method not given	
sulphur		> 2000			
diammonium oxalate monohydrate		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate		No data available			
oxalic acid	LD_{50}	20000	Rabbit	Method not given	
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate		No data available			
oxalic acid		No data available			
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			

sulphur	No data available			
diammonium oxalate monohydrate	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
aluminium oxide	No data available		No data available	
potassium hydrogen oxalate	No data available		No data available	
oxalic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
sulphur	No data available		No data available	
diammonium oxalate monohydrate	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
aluminium oxide	No data available
potassium hydrogen oxalate	No data available
oxalic acid	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
aluminium oxide			No data available				
potassium hydrogen oxalate			No data available				
oxalic acid			No data available				
sulphur			No data available				
diammonium oxalate monohydrate			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
aluminium oxide		No data available				
potassium hydrogen oxalate		No data available				
oxalic acid		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
aluminium oxide		No data available				
potassium hydrogen oxalate		No data available				
oxalic acid	LOAEL	150	Rat	Method not given		
sulphur		No data available				
diammonium oxalate monohydrate		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
aluminium oxide		No data available				
potassium hydrogen oxalate		No data available				
oxalic acid		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
aluminium oxide			No data available					
potassium hydrogen oxalate			No data available					
oxalic acid			No data available					
sulphur			No data available					
diammonium oxalate monohydrate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
aluminium oxide	No data available
potassium hydrogen oxalate	No data available
oxalic acid	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
aluminium oxide	No data available
potassium hydrogen oxalate	No data available
oxalic acid	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity
Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate	LC_{50}	160	*Leuciscus idus*	Read across	48
oxalic acid	LC_{50}	160	*Carassius auratus*	Method not given	48
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate	EC_{50}	162.2	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
oxalic acid	EC_{50}	162.2	*Daphnia magna Straus*	Method not given	48
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
aluminium oxide		No data available			
potassium hydrogen oxalate	EC_{50}	80		Read across	192
oxalic acid	IC_{50}	80		Method not given	192
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
aluminium oxide		No data available			
potassium hydrogen oxalate		No data available			
oxalic acid		No data available			
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
aluminium oxide		No data available			
potassium hydrogen oxalate		No data available			

oxalic acid	EC_{50}	1550		Method not given	16 hour(s)
sulphur		No data available			
diammonium oxalate monohydrate		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
aluminium oxide		No data available				
potassium hydrogen oxalate		No data available				
oxalic acid		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
aluminium oxide		No data available				
potassium hydrogen oxalate		No data available				
oxalic acid		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
oxalic acid	EC_{50}	1				

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
aluminium oxide					Not applicable (inorganic substance)
potassium hydrogen oxalate	Activated sludge, aerobe	Oxygen depletion	89% in 5 day(s)	Read across	Readily biodegradable
oxalic acid			89 % in 20 day(s)	Method not given	Readily biodegradable
sulphur					Not applicable (inorganic substance)
diammonium oxalate monohydrate					Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
aluminium oxide	No data available			
potassium hydrogen oxalate	No data available			
oxalic acid	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
aluminium oxide	No data available				
potassium hydrogen oxalate	No data available				
oxalic acid	No data available				
sulphur	No data available				
diammonium oxalate monohydrate	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
aluminium oxide	No data available				
potassium hydrogen oxalate	No data available				
oxalic acid	No data available				
sulphur	No data available				
diammonium oxalate monohydrate	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging Recommendation: Dispose of observing national or local regulations.

SECTION 14: Transport information

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations
• Decree 108/2008/NP-CP Circular No.: 04/2012/TT-BCT Regulations on the Classification and Labeling of Chemicals

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS4800017 **Version:** 02.0 **Revision:** 2025-02-14

Reason for revision:
This data sheet contains changes from the previous version in section(s):, 1, 2, 4, 6, 7, 8, 9, 10, 14

Abbreviations and acronyms:
• ATE - Acute Toxicity Estimate
• DNEL - Derived No Effect Limit
• EC50 - effective concentration, 50%
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• LD50 - Lethal Dose, 50% / Median Lethal dose
• NOAEL - No observed adverse effect level
• NOEL - No observed effect level
• OECD - Organisation for Economic Cooperation and Development
• PNEC - Predicted No Effect Concentration
• STOT-RE - Specific target organ toxicity (repeated exposure)
• STOT-SE - Specific target organ toxicity (single exposure)
• H290 - May be corrosive to metals.
• H302 - Harmful if swallowed.
• H312 - Harmful in contact with skin.
• H315 - Causes skin irritation.
• H318 - Causes serious eye damage.

End of Safety Data Sheet