MSDS

Safety Data Sheet

安全数据表

Corporation name: 企业名称	**Xingtai Yijiade New Materials Co., Ltd.** 邢台亿嘉德新材料有限公司
Product Name: 产品名称	**Industrial Scrub Hand Cleaner** 工业磨砂油污洗手液
Model/Mark: 型号/标记	哈美达

ISSUED BY

Compiled by:	Approved by:	Date:
Carol Liu	Peter Huang Lab Supervisor	Shenzhen JAC Global Certification Co., Ltd. Date:Sep. 17, 2026

1. Product and Company Identification / 产品及公司标识

Product Name **产品名称**	Industrial Scrub Hand Cleaner 工业磨砂油污洗手液
Other Means of Identification — UFI **其他标识方式 — 唯一配方标识符(UFI)**	Not required. A UFI is required under Annex VIII to Regulation (EC) No 1272/2008 only for mixtures classified for health or physical hazards; this mixture is not classified (see Section 2). 不需要。根据法规(EC) No 1272/2008 附录 VIII，仅具健康或物理危害分类的混合物须标注唯一配方标识符(UFI)；本混合物未分类（见第 2 节）。
Nanoform **纳米形态**	Not applicable — the product does not contain substances in nanoform. 不适用——本产品不含纳米形态物质。
Manufacturer **制造商**	Xingtai Yijiade New Materials Co., Ltd. No. 535, Xianyu Village, Xingdong New District, Xingtai City, Hebei Province, China 邢台亿嘉德新材料有限公司 中国河北省邢台市邢东新区先于村 535 号
Supplier **供应商**	Xingtai Yijiade New Materials Co., Ltd. No. 535, Xianyu Village, Xingdong New District, Xingtai City, Hebei Province, China 邢台亿嘉德新材料有限公司 中国河北省邢台市邢东新区先于村 535 号
Emergency Phone **紧急电话**	+86-176-2401-2016
Recommended Use **建议用途**	Heavy-duty rinse-off hand cleaner for removing oil, grease and industrial soil from hands. For industrial, automotive repair and workshop use. 重垢型冲洗式洗手液，用于清除手部机油、润滑油及工业油污。适用于工业、汽修及车间等场景。
Restrictions on Use **使用限制**	Rinse-off skin cleanser only. Not for disinfection. Not for food, drug or cosmetic use. For external use only. 仅作冲洗型皮肤清洁用途。非消毒用途。不得用于食品、药品或化妆品。仅供外用。

2. Hazards Identification / 危险性标识

2.1 Classification of the substance or mixture: / 2.1 物质或混合物的分类：

Classification according to Regulation (EC) No 1272/2008 (CLP): / 根据法规(EC) No 1272/2008 (CLP)分类：

- Not classified as a hazardous mixture. / - 未归类为危险性混合物。

Classification basis: after removal of the pH adjuster (citric acid) the mixture contains only one classified ingredient, sodium laureth sulfate at 8%. Σ Eye Irrit. 2 = 8% < 10% (CLP Table 3.3.3) and Σ Skin Irrit. 2 = 8% < 10% (CLP Table 3.2.3); the generic concentration limits are therefore not reached and the mixture is not classified. All other ingredients are not classified. / 分类依据：移除 pH 调节剂（柠檬酸）后，本混合物仅含一种有分类的成分——脂肪醇聚氧乙烯醚硫酸钠 8%。Σ眼刺激 2 类 = 8% < 10%（CLP 表 3.3.3），Σ皮肤刺激 2 类 = 8% < 10%（CLP 表 3.2.3），均未达到通用浓度限值，故混合物不分类。其余成分均无分类。

2.2 Label elements: / 2.2 标签要素：

Hazard pictogram(s): None required. / 危险性象形图：无需。

Signal word: None required. / 警示词：无需。

Hazard statement(s): None required. / 危险性说明：无需。

Precautionary statement(s): None required by law. The following good-practice statements are recommended: / 防范说明：法规未作强制要求。建议标注以下良好操作规范用语：

- P264: Wash hands thoroughly after handling. / - P264：操作后彻底洗手。

- P280: Wear eye protection. / - P280：戴眼睛防护用品。

- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. / - P305+P351+P338：如进入眼睛：用水小心冲洗几分钟。如戴隐形眼镜且易于取下，取下后继续冲洗。

- P337+P313: If eye irritation persists: Get medical advice/attention. / - P337+P313：如眼部刺激持续：就医。

Note: the mixture is not classified, therefore it is outside the scope of the UFI / poison centre notification obligation under CLP Annex VIII (Article 45). Should the surfactant supplier classify sodium laureth sulfate as Eye Dam. 1 (H318) instead of Eye Irrit. 2 (H319), the classification changes to Eye Dam. 1 — Σ Eye Dam. 1 = 8% ≥ 3% — and the mixture becomes hazardous, re-instating the UFI/PCN obligation. / 注：本混合物未分类，因此不属于 CLP 附录 VIII（第 45 条）UFI/毒物中心通报义务的适用范围。若表面活性剂供应商将脂肪醇聚氧乙烯醚硫酸钠归类为眼损伤第 1 类 (H318) 而非眼刺激第 2 类 (H319)，则分类将变为眼损伤第 1 类——Σ眼损伤 1 类 = 8% ≥ 3%——混合物即成为危险性物质，UFI/PCN 义务随之恢复。

2.3 Other hazards: / 2.3 其他危险性：

This mixture does not contain substances that meet the criteria as PBT or vPvB in accordance with Annex XIII of REACH Regulation. / 本混合物不含符合 REACH 法规附录 XIII 中 PBT 或 vPvB 标准的物质。

Endocrine disrupting properties: no ingredient is listed on the ECHA Candidate List as having endocrine disrupting properties, and no ingredient has been identified as having endocrine disrupting properties in accordance with the criteria in Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 at a concentration ≥ 0.1% (w/w). / 内分泌干扰特性：无成分因具有内分泌干扰特性而被列入 ECHA 候选清单；依据授权法规(EU) 2017/2100 或授权法规(EU) 2018/605 的标准，无成分在浓度≥0.1%（w/w）时被判定具有内分泌干扰特性。

The mixture is not a nanomaterial and does not contain substances in nanoform. / 本混合物不属于纳米材料，也不含纳米形态物质。

3. Composition/Information on Ingredients / 成分/组成信息

3.1 Substances: / 3.1 物质：

Not applicable — this product is a mixture. / 不适用——本产品为混合物。

3.2 Mixtures: / 3.2 混合物：

The product contains the following ingredients: / 本产品含有以下成分：

Chemical Name / 化学名称	Concentration (%) / 含量 (%)	CAS No. / CAS 号	EC No. / EC 号	CLP Classification / CLP 分类
Aqua (Deionized Water) 去离子水	62	7732-18-5	231-791-2	Not classified
Silica, amorphous (scrubbing	20	7631-86-9	231-545-4	Not classified

particles) 无定形二氧化硅（磨砂粒子）				
Thickener: Hydroxyethyl Cellulose / Carbomer (polyacrylic acid) 增稠剂：羟乙基纤维素/卡波姆（聚丙烯酸）	10 (combined)	9004-62-0 / 9003-01-4	- / 202-415-4	Not classified (polymers)
Sodium Laureth Sulfate (SLES/AES) 脂肪醇聚氧乙烯醚硫酸钠	8	9004-82-4	-	Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)

Note: Composition as provided by the applicant. The thickener content (10%) is the combined total of hydroxyethyl cellulose and carbomer — the individual split is to be confirmed by the applicant. Ingredients are listed in descending order of concentration. / 注：成分由申请人提供。增稠剂含量 10%为羟乙基纤维素与卡波姆的合计总量，两者各自比例待申请人确认。成分按含量由高至低排列。

Additional information required by Commission Regulation (EU) 2020/878: none of the ingredients has a specific concentration limit (SCL), M-factor or acute toxicity estimate (ATE) that requires declaration; no ingredient is present in nanoform; no ingredient is listed as having endocrine disrupting properties or as a PBT/vPvB substance. Both thickener polymers are exempt from REACH registration (polymers, Article 2(9)); the monomeric units of polyacrylic acid are registered where required. / 委员会法规(EU) 2020/878 要求的补充信息：无成分具有需要声明的特定浓度限值(SCL)、M 因子或急性毒性估计值(ATE)；无成分以纳米形态存在；无成分被列为具有内分泌干扰特性或属于 PBT/vPvB 物质。两种增稠聚合物均豁免 REACH 注册（聚合物，第 2(9)条）；聚丙烯酸的单体单元在需要时已完成注册。

4. First Aid Measures / 急救措施

4.1 Inhalation **4.1 吸入**	Remove to fresh air. If symptoms persist, seek medical attention. 移至空气新鲜处。如症状持续，请就医。
4.2 Skin Contact **4.2 皮肤接触**	Wash with soap and water. Remove contaminated clothing. If irritation develops, seek medical advice. 用肥皂和水清洗。脱去受污染的衣物。如出现刺激反应，请就医。
4.3 Eye Contact **4.3 眼睛接触**	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists. 立即用大量清水冲洗至少 15 分钟。如戴隐形眼镜且易于取下，取下后继续冲洗。如刺激持续，请就医。
4.4 Ingestion **4.4 食入**	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if large amounts are swallowed. 用清水漱口。切勿催吐。不可向失去意识者经口喂食任何物品。如吞食大量，请就医。

4.5 Most important symptoms/effects, acute and delayed: / 4.5 最重要的症状/影响，急性和迟发性：

Mild irritation may occur upon direct contact with eyes or prolonged skin contact. No significant acute or chronic effects expected under normal use. / 直接接触眼睛或长时间皮肤接触可能引起轻微刺激。正常使用下预期不会出现显著急性或慢性影响。

4.6 Indication of immediate medical attention and special treatment needed: / 4.6 需要立即就医和特殊治疗的指征：

Treat symptomatically. No specific antidote available. / 对症治疗。无特定解毒剂。

5. Firefighting Measures / 消防措施

5.1 Extinguishing media: / 5.1 灭火剂：

Suitable: Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide. The product is not flammable. / 适用：水雾、干粉、抗醇泡沫、二氧化碳。本产品不可燃。

Unsuitable: None known. / 不适用：无已知不适用灭火剂。

5.2 Special hazards arising from the substance or mixture: / 5.2 物质或混合物引起的特殊危险性：

In fire conditions, the product may decompose to produce oxides of carbon, oxides of sulfur, and other potentially toxic fumes. / 火灾条件下，产品可能分解产生碳氧化物、硫氧化物及其他潜在有毒烟雾。

5.3 Advice for firefighters: / 5.3 消防人员建议：

Wear self-contained breathing apparatus (SCBA) and full protective gear. Contain runoff water to prevent environmental contamination. / 佩戴自给式呼吸器（SCBA）及全套防护装备。控制消防用水以防止环境污染。

6. Accidental Release Measures / 泄漏应急措施

6.1 Personal precautions, protective equipment and emergency procedures: / 6.1 个人防护措施、防护设备及应急程序：

Avoid direct contact with spilled material. Use appropriate protective equipment (gloves, goggles). Keep unnecessary personnel away. / 避免直接接触泄漏物。使用适当防护设备（手套、护目镜）。无关人员远离。

6.2 Environmental precautions: / 6.2 环境防护措施：

Prevent entry into drains, surface water, and soil. Report spills to appropriate authorities if required by local regulations. / 防止进入排水沟、地表水及土壤。如当地法规要求，向相关主管部门报告泄漏。

6.3 Methods and material for containment and cleaning up: / 6.3 围堵及清理方法：

- Small spills: Absorb with inert material (sand, earth, vermiculite). Collect in suitable container for disposal. / - 少量泄漏：用惰性材料（砂、土、蛭石）吸收。收集至适当容器中以待处置。

- Large spills: Dike far ahead of spill. Collect mechanically. Wash residue with water. / - 大量泄漏：于泄漏前方围堵。以机械方式收集。用清水冲洗残留物。

6.4 Reference to other sections: / 6.4 参见其他章节：

See Section 8 for personal protective equipment. See Section 13 for disposal considerations. / 个人防护设备请参见第 8 节。处置考量请参见第 13 节。

7. Handling and Storage / 操作处置与储存

7.1 Precautions for safe handling: / 7.1 安全操作注意事项：

Handle in accordance with good industrial hygiene practices. Avoid contact with eyes and prolonged skin contact. Wash hands after use. Keep containers tightly closed when not in use. Ensure adequate ventilation. / 按良好工业卫生规范操作。避免接触眼睛及长时间皮肤接触。使用后洗手。不使用时保持容器紧闭。确保充分通风。

7.2 Conditions for safe storage, including any incompatibilities: / 7.2 安全储存条件，包括不相容物：

Store in original container in a cool, dry, well-ventilated area. Protect from direct sunlight and extreme temperatures. Storage temperature: 5-40°C. Keep out of reach of children. Keep away from strong oxidizing agents, strong acids,

and strong bases. / 储存于原始容器中，置于阴凉、干燥、通风良好处。避免阳光直射及极端温度。储存温度：5-40°C。远离儿童。远离强氧化剂、强酸和强碱。

7.3 Specific end use(s): / 7.3 特定最终用途：

Heavy-duty rinse-off hand cleaner for removing oil, grease and industrial soil from hands in industrial, automotive repair and workshop settings. / 重垢型冲洗式洗手液，用于工业、汽修及车间等场景清除手部机油、润滑油及工业油污。

8. Exposure Controls/Personal Protection / 接触控制/个人防护

8.1 Control parameters: / 8.1 控制参数：

Occupational exposure limits (EU IOELV): No specific IOELV established for this mixture. / 职业暴露限值（欧盟IOELV）：本混合物未建立特定 IOELV。

- Silica, amorphous (CAS 7631-86-9): EU IOELV not established. Widely used EU reference values: 10 mg/m³ (inhalable dust) / 3 mg/m³ (respirable dust), 8h TWA. Note: these values apply to amorphous silica only. / - 无定形二氧化硅 (CAS 7631-86-9)：欧盟未建立 IOELV。常用欧盟参考值：10 mg/m³（可吸入粉尘）/ 3 mg/m³（呼吸性粉尘），8 小时 TWA。注：上述限值仅适用于无定形二氧化硅。

- SLES (CAS 9004-82-4): No OEL established. / - 脂肪醇聚氧乙烯醚硫酸钠 (CAS 9004-82-4)：未设立 OEL。

DNEL (Derived No Effect Level): Not established for the mixture. / DNEL（衍生无效应水平）：本混合物未建立。

PNEC (Predicted No Effect Concentration): Not established for the mixture. / PNEC（预测无效应浓度）：本混合物未建立。

8.2 Exposure controls: / 8.2 暴露控制：

Appropriate engineering controls: / 适当工程控制：

General ventilation is normally adequate. Use local exhaust ventilation if mist or aerosol is generated. / 一般通风通常即可。如产生雾气或气溶胶，请使用局部排风。

Personal protective equipment: / 个人防护设备：

Respiratory Protection **呼吸防护**	Not normally required. Use approved respirator if aerosol exposure exceeds recommended limits. 正常条件下无需。如气溶胶暴露超过推荐限值，请使用经认证的呼吸器。
Hand Protection **手部防护**	Not normally required. Prolonged exposure, Chemical-resistant gloves (e.g., nitrile rubber, PVC). Breakthrough time > 480 min. 正常使用无需。 如长时间接触，耐化学手套（如丁腈橡胶、PVC）。穿透时间 > 480 分钟。
Eye Protection **眼部防护**	Safety glasses with side-shields or goggles (EN 166). 带侧护罩的安全眼镜或护目镜（EN 166）。
Skin Protection **皮肤防护**	Protective clothing as appropriate for the task. 依工作需要穿着适当防护服。

Environmental exposure controls: / 环境暴露控制：

Do not allow to enter drains or watercourses. Dispose of in accordance with local regulations. / 不得排入排水沟或水道。按当地法规处置。

9. Physical and Chemical Properties / 理化特性

9.1 Information on basic physical and chemical properties: / 9.1 基本理化性质信息：

Physical State **物态**	Liquid 液体
Colour **颜色**	Light yellow 淡黄色
Odour and Odour Threshold **气味及气味阈值**	Odourless; odour threshold not applicable 无气味；气味阈值不适用
Particle Characteristics **粒子特性**	Not applicable — liquid product, no nanoform 不适用——液体产品，无纳米形态
pH **pH 值**	6.0 - 8.5
Melting Point/Freezing Point **熔点/凝固点**	~0°C
Initial Boiling Point **初始沸点**	~100°C
Flash Point **闪点**	> 100°C
Evaporation Rate **蒸发速率**	Not available 无可用数据
Flammability **易燃性**	Not flammable 不易燃
Upper/Lower Flammability or Explosive Limits **燃烧/爆炸上限/下限**	Not applicable 不适用
Vapor Pressure **蒸气压**	~2.3 kPa (20°C, water) ~2.3 kPa（20°C，水）
Vapor Density **蒸气密度**	Not available 无可用数据
Relative Density **相对密度**	1.00 - 1.05 (20°C)
Solubility in Water **水溶解性**	Fully miscible/dispersible 可与水混溶/可分散
Partition Coefficient (n-octanol/water) **正辛醇/水分配系数**	Not available (mixture) 无可用数据（混合物）
Auto-ignition Temperature **自燃温度**	Not applicable 不适用
Decomposition Temperature **分解温度**	> 200°C
Viscosity (kinematic) **黏度（运动）**	1000 - 5000 mPa·s (20°C)

Explosive Properties **爆炸性**	Not explosive 不具爆炸性
Oxidizing Properties **氧化性**	Not oxidizing 不具氧化性

9.2 Other information: / 9.2 其他信息：

No additional information available. / 无其他可用信息。

10. Stability and Reactivity / 稳定性和反应性

10.1 Reactivity: / 10.1 反应性：

No dangerous reactivity known under normal conditions of use. / 正常使用条件下无已知危险反应性。

10.2 Chemical stability: / 10.2 化学稳定性：

Stable under recommended storage and handling conditions. / 在建议储存及操作条件下稳定。

10.3 Possibility of hazardous reactions: / 10.3 危险反应可能性：

No hazardous polymerization or other hazardous reactions expected. / 预期不会发生危险聚合反应或其他危险反应。

10.4 Conditions to avoid: / 10.4 应避免的条件：

Excessive heat, direct sunlight, freezing temperatures. / 过热、阳光直射、冷冻温度。

10.5 Incompatible materials: / 10.5 不相容物质：

Strong oxidizing agents, strong acids, strong bases. / 强氧化剂、强酸、强碱。

10.6 Hazardous decomposition products: / 10.6 有害分解产物：

Carbon oxides, oxides of sulfur, trace toxic fumes upon thermal decomposition. / 热分解时产生碳氧化物、硫氧化物及微量有毒烟雾。

11. Toxicological Information / 毒理学信息

11.1 Information on toxicological effects: / 11.1 毒理学影响信息：

Acute Toxicity **急性毒性**	No data available for the mixture. Based on ingredients, low acute toxicity expected. Sodium laureth sulfate: oral LD50 (rat) ≈ 1800 mg/kg. 混合物无可用数据。根据成分，预期急性毒性低。脂肪醇聚氧乙烯醚硫酸钠：经口 LD50（大鼠）≈ 1800 mg/kg。
Skin Corrosion/Irritation **皮肤腐蚀/刺激**	Not classified (Σ Skin Irrit. 2 = 8% < 10%). The surfactant content may cause mild irritation or dryness upon prolonged or repeated contact; brief contact under intended rinse-off use is not expected to cause significant effects. 不分类（Σ皮肤刺激 2 类 = 8% < 10%）。所含表面活性剂在长时间或反复接触时可能引起轻微刺激或皮肤干燥；按预期冲洗用途短暂接触预计不会产生显著影响。
Serious Eye Damage/Irritation **严重眼损伤/刺激**	Not classified (Σ Eye Irrit. 2 = 8% < 10%). The surfactant may still cause transient eye discomfort on direct contact; contact with eyes should be avoided. 不分类（Σ眼刺激 2 类 = 8% < 10%）。所含表面活性剂在直接接触时仍可能引起短暂眼部不适；应避免接触眼睛。
Respiratory or Skin Sensitization **呼吸道或皮肤致敏**	Not expected to be a respiratory or skin sensitizer. The mixture does not contain known sensitizing substances at concentrations triggering classification.

	预期不具呼吸道或皮肤致敏性。本混合物所含已知致敏物质的浓度未达到触发分类的限值。
Germ Cell Mutagenicity **生殖细胞致突变性**	No data available. Not expected to be mutagenic. 无可用数据。预期不具致突变性。
Carcinogenicity **致癌性**	No ingredients listed by IARC, NTP. 现有浓度下，无成分被 IARC、NTP 列为致癌物
Reproductive Toxicity **生殖毒性**	No data available. Not expected to cause reproductive toxicity. 无可用数据。预期不具生殖毒性。
STOT - Single Exposure **特定靶器官毒性-单次暴露**	No specific target organ toxicity identified. 未发现特定靶器官毒性。
STOT - Repeated Exposure **特定靶器官毒性-重复暴露**	No specific target organ toxicity identified. Repeated skin contact may cause defatting/dryness of the skin. 未发现特定靶器官毒性。反复皮肤接触可能导致皮肤脱脂/干燥。
Aspiration Hazard **吸入性危害**	Not expected to be an aspiration hazard. 预期不具吸入性危害。

11.2 Information on endocrine disrupting properties: / 11.2 内分泌干扰特性信息：

No substance in this mixture has been identified as having endocrine disrupting properties for human health in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 at a concentration ≥ 0.1% (w/w), and no ingredient is listed on the ECHA Candidate List for endocrine disrupting properties. / 依据授权法规(EU) 2017/2100 或授权法规(EU) 2018/605 设定的标准，本混合物中无物质在浓度≥0.1%（w/w）时被判定对人类健康具有内分泌干扰特性，亦无成分因内分泌干扰特性被列入 ECHA 候选清单。

12. Ecological Information / 生态学信息

12.1 Toxicity: / 12.1 毒性：

No specific ecotoxicity data for the mixture. Surfactants are inherently irritating to aquatic organisms in concentrated form, but the rinse-off use and dilution considerably reduce the risk. Low aquatic toxicity expected at in-use concentrations. / 混合物无特定生态毒性数据。表面活性剂在浓缩状态下对水生生物具有刺激性，但冲洗使用及稀释可显著降低风险。在使用浓度下预期水生毒性低。

12.2 Persistence and degradability: / 12.2 持久性及可降解性：

The surfactant component (sodium laureth sulfate) is readily biodegradable and complies with the surfactant biodegradation requirements of Regulation (EC) No 648/2004. Amorphous silica is an inorganic, inert substance and is not degradable, but it is not considered persistent in the PBT sense. / 表面活性剂成分（脂肪醇聚氧乙烯醚硫酸钠）可快速生物降解，符合法规(EC) No 648/2004 的表面活性剂生物降解要求。无定形二氧化硅为无机惰性物质、不可降解，但不属于 PBT 意义上的持久性物质。

12.3 Bioaccumulative potential: / 12.3 生物累积性：

Surfactants have low bioaccumulation potential due to their water solubility. Amorphous silica has no bioaccumulation potential. / 表面活性剂因水溶性高而生物累积潜力低。无定形二氧化硅无生物累积潜力。

12.4 Mobility in soil: / 12.4 土壤中的迁移性：

The product is water-soluble and expected to have high mobility in soil. / 本产品可溶于水，预期在土壤中迁移性高。

12.5 Results of PBT and vPvB assessment: / 12.5 PBT 及 vPvB 评估结果：

This mixture does not contain substances that meet the PBT or vPvB criteria per REACH Annex XIII. / 本混合物不含符合 REACH 附录 XIII 中 PBT 或 vPvB 标准的物质。

12.6 Other adverse effects: / 12.6 其他不良影响：

No known ozone depletion potential. No other significant adverse environmental effects identified. Endocrine disrupting properties: no substance is identified as an endocrine disruptor for the environment in accordance with the criteria in Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 at a concentration ≥ 0.1% (w/w). / 无已知臭氧层破坏潜力。未发现其他显著不良环境影响。内分泌干扰特性：依据授权法规(EU) 2017/2100 或授权法规(EU) 2018/605 的标准，无物质在浓度≥0.1%（w/w）时被判定对环境具有内分泌干扰特性。

12.7 Additional information (per Regulation (EU) 2020/878): / 12.7 补充信息（依据法规(EU) 2020/878）：

Amorphous silica is inert, insoluble in water and has no known ecotoxicological effects. The product is a water-based, rinse-off preparation; the environmental risk under normal use is considered low. / 无定形二氧化硅为惰性物质，不溶于水，无已知生态毒理效应。本产品为水基冲洗型制剂，正常使用条件下的环境风险较低。

13. Disposal Considerations / 废弃处置

13.1 Waste treatment methods: / 13.1 废弃物处理方法：

Dispose of in accordance with local, regional, and national regulations. Do not discharge into drains or the environment. Offer surplus and non-recyclable solutions to a licensed disposal company. / 按当地、区域及国家法规处置。不得排入排水沟或环境。将剩余及不可回收溶液交予有资质的废弃物处理公司。

EU Waste Framework Directive (2008/98/EC) — suggested EWC code: 07 06 99 (wastes not otherwise specified, wastes from the MFSU of detergents). / 欧盟废弃物框架指令 (2008/98/EC)——建议 EWC 代码：07 06 99（洗涤剂生产产生的其他未指定废弃物）。

Contaminated packaging: / 受污染包装：

Empty containers should be disposed of in accordance with local regulations. Do not reuse empty containers. EWC code: 15 01 02 (plastic packaging). / 空容器应按当地法规处置。不得重复使用空容器。EWC 代码：15 01 02（塑料包装）。

14. Transport Information / 运输信息

14.1 UN number: / 14.1 联合国编号：

Not regulated — not assigned a UN number. / 不受管制——未分配联合国编号。

14.2 UN proper shipping name: / 14.2 联合国正确运输名称：

Not applicable. / 不适用。

14.3 Transport hazard class(es): / 14.3 运输危险性类别：

Not regulated. / 不受管制。

14.4 Packing group: / 14.4 包装组：

Not applicable. / 不适用。

14.5 Environmental hazards: / 14.5 环境危害：

Not a marine pollutant per IMDG Code. / 非 IMDG Code 海洋污染物。

14.6 Special precautions for user: / 14.6 使用者特殊注意事项：

No special precautions required. Handle in accordance with good hygiene practices. / 无需特殊注意事项。按良好卫

生规范操作。

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: / 14.7 根据 MARPOL 附则 II 及 IBC Code 的散装运输：

Not applicable. / 不适用。

Transport regulations summary: / 运输法规汇总：

ADR (Road, EU): Not regulated. RID (Rail, EU): Not regulated. IMDG (Sea): Not regulated. IATA (Air): Not regulated. / ADR（公路，欧盟）：不受管制。RID（铁路，欧盟）：不受管制。IMDG（海运）：不受管制。IATA（空运）：不受管制。

15. Regulatory Information / 法规信息

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: / 15.1 针对物质或混合物的安全、健康及环境法规/立法：

EU Regulations: / 欧盟法规：

- Regulation (EC) No 1907/2006 (REACH) — Registration, Evaluation, Authorisation and Restriction of Chemicals / - 法规(EC) No 1907/2006 (REACH)——化学品的注册、评估、授权和限制

- Regulation (EC) No 1272/2008 (CLP) — Classification, Labelling and Packaging of substances and mixtures / - 法规(EC) No 1272/2008 (CLP)——物质和混合物的分类、标签和包装

- Commission Regulation (EU) 2020/878 of 18 June 2020 — amending Annex II to REACH (SDS content and format). Applicable since 1 January 2021; safety data sheets not complying with this Annex could be provided only until 31 December 2022. / - 委员会法规(EU) 2020/878（2020 年 6 月 18 日）——修订 REACH 附录 II（安全数据表内容与格式）。自 2021 年 1 月 1 日起适用；不符合该附录的安全数据表仅可使用至 2022 年 12 月 31 日。

- Regulation (EC) No 1272/2008 (CLP), Annex VIII — Unique Formula Identifier (UFI) for hazardous mixtures / - 法规(EC) No 1272/2008 (CLP)附录 VIII——危险性混合物的唯一配方标识符(UFI)

- Delegated Regulation (EU) 2017/2100 and Delegated Regulation (EU) 2018/605 — endocrine disrupting properties criteria / - 授权法规(EU) 2017/2100 及授权法规(EU) 2018/605——内分泌干扰特性判定标准

- Regulation (EU) 2018/1881 — nanoforms of substances (Annexes I, III, VI to XII to REACH) / - 法规(EU) 2018/1881——物质的纳米形态（REACH 附录 I、III、VI 至 XII）

- Directive 2008/98/EC — Waste Framework Directive / - 指令 2008/98/EC——废弃物框架指令

- Directive 2000/39/EC — Indicative Occupational Exposure Limit Values (IOELV) / - 指令 2000/39/EC——指示性职业暴露限值 (IOELV)

- Regulation (EC) No 648/2004 — Detergents Regulation (if applicable) / - 法规(EC) No 648/2004——洗涤剂法规（如适用）

Chinese Regulations (reference): / 中国法规（参考）：

- 《危险化学品安全管理条例》（国务院令第 591 号） / - 《危险化学品安全管理条例》（国务院令第 591 号）

- GB/T 16483-2008《化学品安全技术说明书 内容和项目顺序》 / - GB/T 16483-2008《化学品安全技术说明书 内容和项目顺序》

- GB/T 17519-2013《化学品安全技术说明书编写指南》 / - GB/T 17519-2013《化学品安全技术说明书编

写指南》

CLP Classification: / CLP 分类：

This product is not classified as hazardous under CLP Regulation (EC) No 1272/2008. It is therefore not subject to the UFI / poison centre notification obligation of CLP Annex VIII (Article 45). / 本产品根据 CLP 法规(EC) No 1272/2008 未归类为危险性物质。因此不属于 CLP 附录 VIII（第 45 条）UFI/毒物中心通报义务的适用范围。

15.2 Chemical safety assessment: / 15.2 化学安全评估：

No chemical safety assessment has been carried out for this mixture. / 本混合物未进行化学安全评估。

16. Other Information / 其他信息

Revision Date **修订日期**	Sep. 17, 2026
MSDS Format **MSDS 格式**	EU CLP / REACH Annex II as amended by Commission Regulation (EU) 2020/878 (applicable since 1 January 2021) 欧盟 CLP / REACH 附录 II（经委员会法规(EU) 2020/878 修订，自 2021 年 1 月 1 日起适用）

Abbreviations and acronyms: / 缩写及首字母缩略词：

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals / REACH - 化学品的注册、评估、授权和限制

UFI - Unique Formula Identifier / UFI - 唯一配方标识符

ATE - Acute Toxicity Estimate / ATE - 急性毒性估计值

SCL - Specific Concentration Limit / SCL - 特定浓度限值

ED - Endocrine Disruptor / ED - 内分泌干扰物

CLP - Classification, Labelling and Packaging / CLP - 分类、标签和包装

SDS - Safety Data Sheet / SDS - 安全数据表

CAS - Chemical Abstracts Service / CAS - 化学文摘服务

EC - European Community / EC - 欧洲共同体

EWC - European Waste Catalogue / EWC - 欧洲废弃物目录

DNEL - Derived No Effect Level / DNEL - 衍生无效应水平

PNEC - Predicted No Effect Concentration / PNEC - 预测无效应浓度

PBT - Persistent, Bioaccumulative and Toxic / PBT - 持久性、生物累积性及毒性

vPvB - very Persistent and very Bioaccumulative / vPvB - 高持久性及高生物累积性

TWA - Time-Weighted Average / TWA - 时间加权平均值

STOT - Specific Target Organ Toxicity / STOT - 特定靶器官毒性

IOELV - Indicative Occupational Exposure Limit Value / IOELV - 指示性职业暴露限值

OEL - Occupational Exposure Limit / OEL - 职业暴露限值

IARC - International Agency for Research on Cancer / IARC - 国际癌症研究机构

NTP - National Toxicology Program / NTP - 国家毒理学计划

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road / ADR - 欧洲

国际公路危险货物运输协议

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail / RID - 国际铁路危险货物运输规定

IMDG - International Maritime Dangerous Goods / IMDG - 国际海运危险货物

IATA - International Air Transport Association / IATA - 国际航空运输协会

MARPOL - International Convention for the Prevention of Pollution from Ships / MARPOL - 防止船舶污染国际公约

IBC - International Bulk Chemical Code / IBC - 国际散装化学品规则

SCBA - Self-Contained Breathing Apparatus / SCBA - 自给式呼吸器

LD50 - Lethal Dose, 50% / LD50 - 半数致死剂量

LC50 - Lethal Concentration, 50% / LC50 - 半数致死浓度

EC50 - Effective Concentration, 50% / EC50 - 半数效应浓度

Disclaimer: / 免责声明:

The information contained in this Safety Data Sheet is based on the current state of knowledge and is provided in good faith. This MSDS is intended for the safe handling and use of the product and is not a warranty or specification. Users should make their own determination as to the suitability of the information for their particular purposes. Shenzhen JAC Global Certification Co., Ltd. assumes no liability for any damage resulting from the use of this product. / 本安全数据表所含信息基于目前知识状态并善意提供。本 MSDS 旨在安全操作及使用产品，不构成保证或规格。使用者应自行判断信息是否适合其特定用途。深圳市嘉行国际认证有限公司对因使用本产品而造成的任何损害不承担责任。

--- End of Safety Data Sheet / 安全数据表结束 ---