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SAFETY DATA SHEET — Rational Active Green

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SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (REACH), as retained and amended in UK law Active Green cleaner tab Version number: 5.1. Issued: 2024-11-25. Replaces SDS: 2022-11-07.

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

1.1. Product identifier: Active Green cleaner tab. Article No. 56.01.535; 56.01.628; 56.01.527. UFI code: HYGR-V6WC-C239-AN9Y 1.2. Relevant identified uses: RATIONAL Active Green cleaner tab for iHexagon, iCombi Pro, iCombi Classic and SelfCookingCenter models with Efficient CareControl and CombiMaster Plus models with automatic cleaning for commercial use. Not suitable for all other uses (discouraged). 1.3. Supplier: RATIONAL AG, Siegfried-Meister-Straße 1, 86899 Landsberg am Lech, Germany. Tel +49 8191 327 387. Email reinigung@rational-online.com. Fax +49 8191 327 231. Web www.rational-online.com. Importer: RATIONAL UK Ltd., Titan Court, Unit 4, Laporte Way, Portenway Business Parks, LU4 8EF Luton, Bedfordshire, UK. Tel +44 1582 48 03 88. 1.4. Emergency telephone number: 24-Hour-Hotline +49 6132 844 63 (available outside office hours)

SECTION 2: Hazards identification

2.1. Classification (Regulation (EC) No 1272/2008): Skin corrosion category 1A; Serious eye damage category 1; Corrosive to metals category 1. Hazard statements: H290, H314, H318. 2.2. Label elements: Signal word: Danger. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. Precautionary statements: P101 If medical advice is needed, have product container or label at hand. P280 Wear protective gloves/eye protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 CENTER/doctor. P501 Dispose of contents/container to hazardous or special waste collection point, per local/regional/national/international regulation. Hazard components for labeling: sodium hydroxide, disodium metasilicate. 2.3. Other hazards: This mixture does not contain any substances classified as PBT or vPvB per Article 57/Annex XIII of REACH.

SECTION 3: Composition/information on ingredients

3.2. Mixtures: - Sodium hydroxide, CAS 1310-73-2, EC 215-185-5, REACH 01-2119457892-27-xxxx, Index 011-002-00-6, 50-<65%: Skin Corr. 1A (H314). Note: Skin Corr. 1A at C>=5%; Skin Corr. 1B at 2%<=C<5%; Skin Irrit. 2 at 0.5%<=C<2%; Eye Irrit. 2 at 0.5%<=C<2%. - Sodium carbonate, CAS 497-19-8, EC 207-838-8, REACH 01-2119485498-19-xxxx, Index 011-005-00-2, 5-10%: Eye Irrit. 2 (H319). - Disodium metasilicate, CAS 6834-92-0, EC 229-912-9, REACH 01-2119449811-37-xxxx, Index 014-010-00-8, 1-5%: Skin Corr. 1B, STOT SE 3 - resp. tract irrit. (H314, H335). Full text of H/EUH statements in Section 16.

SECTION 4: First aid measures

4.1. First responders: Pay attention to self-protection. Inhalation: Take victim into fresh air. If symptoms persist, call a physician. Skin contact: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention immediately if irritation develops and persists. Eye contact: Call a physician immediately. Remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ingestion: Clean mouth with water and drink plenty of water afterwards. Do not induce vomiting. Get medical attention immediately. Information for doctors: For specialist advice, physicians should contact the Poisons Information Service. 4.2. Symptoms/effects: Immediate effects can be expected after long-term exposure. Inhalation: not applicable. Skin contact: causes burns. Eye contact: may cause irreversible eye damage. Ingestion: severe burns of mouth and throat, danger of perforation of oesophagus and stomach. 4.3. Treat symptomatically. Show this SDS to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide (CO2). Use measures appropriate to local circumstances and surrounding environment. Unsuitable: Do not use a solid water stream as it may scatter and spread fire. 5.2. Special hazards: Corrosive. Hazardous decomposition products formed under fire conditions. 5.3. Advice for firefighters: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately - must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions: Wear PPE. Avoid direct contact with material/product. 6.2. Environmental precautions: Do not flush into surface water or sanitary sewer system. If product contaminates rivers/lakes/drains, inform authorities. 6.3. Containment/cleanup: Use mechanical handling equipment. Dispose of as hazardous waste per local/national regulations. 6.4. Reference to other sections: 7 (storage/handling), 8 (exposure/PPE), 10 (incompatible materials), 13 (disposal).

SECTION 7: Handling and storage

7.1. Safe handling: Wear PPE. Avoid direct contact. Wash hands after handling. Do not eat, drink or smoke when using. Usual precautionary measures for handling chemicals must be observed. 7.2. Storage: Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only. Keep out of reach of children. Storage class per TRGS 510: 8B (non-flammable, corrosive hazardous substances). Store in original container. Storage temperature 10°C to 40°C. 7.3. Specific end use(s): PC35 - Detergents and cleaning products (including solvent-based products).

SECTION 8: Exposure controls/personal protection

8.1. DNEL: Sodium hydroxide - chronic inhalation 1 mg/m3 (workers, local). Sodium carbonate - chronic inhalation 10 mg/m3 (workers, local). Disodium metasilicate - chronic dermal 1.49 mg/kg (workers, systemic); chronic inhalation 6.22 mg/m3 (workers, systemic); chronic oral 0.74 mg/kg (consumers, systemic). PNEC: Disodium metasilicate - freshwater 7.5 mg/L. 8.2. Exposure controls: Engineering controls: ensure adequate ventilation, especially in confined areas. Eye/face protection: chemical-resistant safety glasses with side protection (EN166). Hand protection: chemical-resistant gloves (EN 374), suitable material Butyl or NBR rubber, category III per EN 374; choice depends on material and workplace conditions (mechanical strain, duration of contact) - follow glove manufacturer guidance on permeability/break-through times. Other skin protection: not necessary under normal/foreseeable use. Respiratory protection: not necessary under normal/foreseeable use. Thermal hazards: not applicable. Environmental exposure controls: no special precautions required.

SECTION 9: Physical and chemical properties

Physical state: Tablet. Colour: White. Odour: Characteristic. Melting/freezing point: Not applicable. Boiling point/range: Not applicable. Flammability: Not applicable. Lower/upper explosion limit: Product has no explosive properties. Flash point: No data available. Autoignition temperature: Not applicable. Decomposition temperature: No information available. pH: 12.5 (Method: 1% aqueous solution). Kinematic/dynamic viscosity: Not applicable. Solubility: Water soluble; completely soluble. Partition coefficient n-octanol/water: No information available. Vapour pressure: Not applicable. Density: 1050 kg/m3 (bulk density). Relative density/relative vapour density: No information available/not applicable. Evaporation rate: Not applicable. Explosive properties: None. Oxidising properties: None. VOC %: <3%. Particle characteristics: Does not contain nanomaterials/nanoforms as defined in Regulation (EC) 1907/2006.

SECTION 10: Stability and reactivity

10.1. Reactivity: Stable at normal conditions. 10.2. Chemical stability: Chemically stable. 10.3. Possibility of hazardous reactions: None under normal use. 10.4. Conditions to avoid: Protect from moisture, frost, heat and sunlight. 10.5. Incompatible materials: Strong acids. Light metals. Oxidizing agents. 10.6. Hazardous decomposition products: See Section 5. Hazardous decomposition products formed under fire conditions.

SECTION 11: Toxicological information

No data available on the product itself; toxicology data given for components. Acute toxicity: Sodium carbonate - Oral LD50 2,800 mg/kg (rat); Dermal LD50 >2,000 mg/kg (rabbit); Inhalation LC50 2,300 mg/m3 (2h, rat). Disodium metasilicate - Oral LD50 1,150-1,350 mg/kg (rat) / 770-820 mg/kg (mouse). Skin corrosion/irritation: Causes severe skin burns. Serious eye damage/irritation: Causes severe eye burns. Respiratory/skin sensitisation, germ cell mutagenicity, carcinogenicity, repeated dose toxicity, reproductive toxicity, STOT-single/repeated, aspiration hazard: Based on available data, classification criteria not met for all of these endpoints. 11.2. Endocrine disrupting properties: Mixture/product does not contain ingredients with endocrine disrupting properties per (EC) 1907/2006, (EU) 2018/605 and delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity: No data on product itself; component data given. Acute fish toxicity: Sodium carbonate LC50 300 mg/L (96h, Lepomis macrochirus). Disodium metasilicate LC50 210 mg/L (96h, Brachydanio rerio). Acute algae toxicity: Disodium metasilicate EC50 207 mg/L (72h, Chlorella pyrenoidosa). Acute crustacean toxicity: Sodium hydroxide EC50 40.4 mg/L (48h, Ceriodaphnia dubia, ECHA source). Sodium carbonate EC50 200-227 mg/L (48h, Ceriodaphnia dubia). Disodium metasilicate EC50 1,700 mg/L (48h, Daphnia magna). Micro-/macro organism toxicity: Disodium metasilicate EC50 >100 mg/L (3h, activated sludge bacteria). 12.2. Persistence and degradability: Surfactants meet biodegradability requirements per Regulation (EC) 648/2004. Readily biodegradable per OECD 301B (CO2 Evolution Test). 12.3. Bioaccumulative potential: No information available. 12.4. Mobility in soil: No information available. 12.5. PBT/vPvB assessment: Mixture does not contain substances classified as PBT or vPvB per Article 57/Annex XIII of REACH. 12.6. Endocrine disrupting properties: Does not contain ingredients with endocrine disrupting properties per (EC) 1907/2006, (EU) 2018/605, (EU) 2017/2100. 12.7. Other adverse effects: Neutralization normally necessary before waste water discharge into treatment plants; neutralisation reduces ecotoxic effects. Product does not contain substances within meaning of Regulation (EC) 1005/2009 (ozone-depleting).

SECTION 13: Disposal considerations

13.1. Dispose of as hazardous waste per local/national regulations. Packaging: empty containers for local recycling/recovery/waste disposal; contaminated packaging disposed of as unused product. Waste code: 20 01 29* detergents containing hazardous substances (asterisk denotes HAZARDOUS WASTE).

SECTION 14: Transport information

14.1. UN number: 1823 14.2. UN proper shipping name: SODIUM HYDROXIDE, SOLID (ADR/RID/ADN and IMDG) 14.3. Transport hazard class(es): 8 (ADR/RID/ADN/IMDG/IATA). Classification code C6. Hazard ID number 80. 14.4. Packing group: II 14.5. Environmental hazards: No (not a marine pollutant per IMDG) 14.6. Special precautions for user: IMDG EmS F-A, S-B 14.7. Maritime transport in bulk: Not applicable Additional ADR-RID info: LQ 1kg; EQ E2; Transport category (tunnel restriction code): 2 (E)

SECTION 15: Regulatory information

15.1. EU regulations: Regulation (EC) 648/2004 (detergents) - ingredients per Annex VII: <5% polycarboxylates, non-ionic surfactants. Regulation (EC) 1272/2008 (CLP). Regulation (EC) 1907/2006 (REACH) - not subject to Annex XIV authorization, Annex XVII restriction, or SVHC candidate list. Regulation (EU) 528/2012 (BPR) - active ingredients not applicable. Regulation (EU) 2019/1148 (explosives precursors) - not applicable. Directive 2011/65/EU (RoHS 2) - not applicable. Regulation (EU) 2019/1021 (POPs) - not applicable. Directive 2012/18/EU (Seveso III) - not applicable. National regulations: UK REACH (SI 2019/758 as amended); UK CLP (SI 2015/21 as amended); UK COMAH (SI 2015/483 as amended); Management of Health and Safety at Work Regulations (SI 1999/3242 as amended) - requirements re: protection of young people and new/expectant mothers at work. 15.2. Chemical safety assessment: Mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision: Addition of iHexagon (Section 1.2); Addition of Importer (Section 1.3). Full text of H-statements: H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Classification method: Health hazards - calculation method. Phrase legend: Skin Corr. 1A/1B = Skin corrosion categories; Eye Dam. 1 = Serious eye damage category 1; Eye Irrit. 2 = Eye irritation category 2; STOT SE 3 - resp. tract irrit. = Specific Target Organ Toxicity, single exposure, category 3, respiratory tract irritation. References: REACH registration dossiers; ECHA C&L Inventory; safety data sheets from raw material suppliers. Manufacturer's notes: Legal disclaimer - information believed correct; company not liable for damage from handling/contact with product. End of Safety Data Sheet.